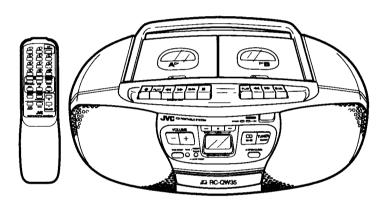
JVC

SERVICE MANUAL

CD PORTABLE SYSTEM

RC-QW35BK B/E/EN/G





RC-QW35

Area Suffix	
B U E Continental Euro EN Northern Euro G Germa	pe pe

■ Self diagnosis function
This model has a convenient self-diagnosis function CD section.

Contents

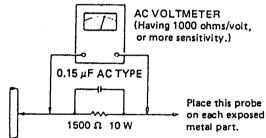
	Safety Precautions	. 2
	Instructions	. 5
1.	Location of Main Parts	15
2.	Removal of Main Parts	16
3.	Troubleshooting	24
4.	Main Adjustment	31
5.	Wiring Connections	36

6.	Block Diagram	37
7.	Standard Schematic Diagrams	42
8.	Location of P.C. Board Parts and Parts List	46
9.	Exploded View of Enclosure Assembly	56
10.	Exploded View of Mechanism Assembly	5 9
11.	Illustration of Packing and Parts List	63

Safety Precautios

- 1. The design this product contains special hardware and many circuits and components specially for safety purposes. For continued protection, no changes should be made to the original design unless authorized in writing by the manufacturer. Replacement parts must be identical to those used in the original circuits. Service should be performed by qualified personnel only.
- 2. Alterations of the design or circuitry of the product should not be made. Any design alterations of the product should not be made. Any design alterations or additions will void the manufacture's warranty and will further relieve the manufacture of responsibility for personal injury or property damage resulting therefrom.
- 3. Many electrical and mechanical parts in the product have special safety related characteristics. These characteristics are often not evident from visual inspection nor can the protection afforded by them necessarily be obtained by using replacement components rated for higher voltage, wattage, etc. Replacement parts which have these special safety characteristics are identified in the parts list of service manual. Electrical components having such features are identified by shading() and() on the schematic diagram and by () on the parts list in the service manual. The use of a substitute replacement which does not have the same safety characteristics as the recommended replacement part shown in the parts list of service manual may create shock, fire, or other hazards.
- 4. The leads in the products are routed and dressed with ties, clamps, tubings, barriers and the like to be separated from live parts, high temperature parts, moving parts and or sharp edges for the prevention of electric shock and fire hazard. When service is required, the original lead routing and dress should be observed, and it should be confirmed that they have been returned to normal, after reassembling.
- 5. Leakage current check (Electrical shock hazard testing)
 - After re assembling the product, always perform an isolation check on the exposed metal parts of the product (antenna terminals, knobs, metal cabinet, screw heads, headphone jack, control shafts, etc.) to be sure the product is safe to operate without danger of electrical shock. Do not use a line isolation transformer during this check.
 - Plug the AC line cord directly into the AC outlet, using a "Leakage current tester", measure the leakage current from each exposed metal part of the cabinet, particularly any exposed metal part having a return path to the chassis, to a known good earth ground.

 Any leakage current must not exposeed 0.5mA AC(r.m.s.)
 - · Alternate check method
 - Plug the AC line cord directly into the AC outlet. Use an AC voltmeter having 1,000 ohms per volt or more sensitivity in the following manner. Connect a 1,500 ohms 10W resistor paralleled by a 0.15 μ F AC type capacitor between an exposed metal part and a known good earth ground. Measure the AC voltage across the resistor with the AC voltmeter. Move the resistor connection to each



exposed metal part, particularly any exposed metal part having a return path to the chassis, and measure the AC voltage across the resistor. Now, reverse the plug in the AC outlet and repeat each measurement. Any voltage measured must not exceed 0.75V AC(r.m.s.). This corresponds to 0.5mA AC(r.m.s.).

♦ Warning (UK only)

- 1. This equipment has been designed and manufactured to meet international safety standards.
- 2. It is the legal responsibility of the repairer to ensure that these safety standards are maintaintained.
- 3. Repairs must be made in accordance with the relevant safety standards.
- 4. It is essential that safety critical components are replaced by approved parts.
- 5. If mains voltage selector is provided, check setting for local voltage.

Safety Precautios

IMPORTANT FOR LASER PRODUCTS

PRECAUTIONS

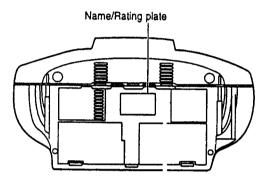
CLASS 1 LASER PRODUCT

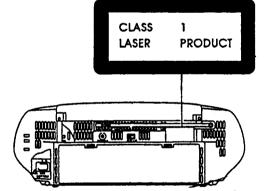
DANGER: Invisible laser radiation when open and interlock failed or defeated. Avoid direct exposure to beam.

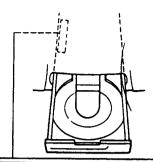
CAUTION: Do not open the rear cover. There are no user serviceable parts inside the unit; leave all servicing to qualified

service personnel.
CAUTION: The compact disc player uses invisible laser radiation and is equipped with safety switches which prevent the emission of radiation when the CD tray is open. It is dangerous to defeat the safety

CAUTION: Use of controls for adjustments and the performance of procedures other than those specified herein may result in exposure to hazardous radiation







DANGER: Invisible been adiation when onen an AVOID DIFFECT EXPOSURE TO BEAM (e) ADVARSEL: Usyrig boar stråling ved åbning, når ertedsalbrydere er ude af funktion. Undgaludsættelse for strilling.

VARMING: Osynlig laser strålning når denna de år doored och spirren år urkoppiad. Betraida ej (s

OLE & SZEGIBENA :ORAN alitiina näkymättömätte lasersáteilylle. Álá katso citessen.

ADVERSEL: Usynlig laserstråling ved åbning. når sikkerhedsafbrydere er ude af funktion. Undgå udsættelse for stråling.

VAROITUS: Varmuuskytkimen oliessa pois päältä kun laite avataan, siellä kehittyy näkymätöbtä lasersäteilä. Älä pane itseäsi säteilyn altiiksi.

VARNING: Osynlig laserståining uppstår vid komponentens öppning när säkerhetsbrytaren är frånslagen.

ADVARSEL: Usynling lasersträling ved åpning når sikkerhetsbryteren er ude af funktion Unngå utsettelse for stråling.





The lightning flash with arrowhead symbol, within an equilateral tri-angle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

IMPORTANT (In the United Kingdom) Mains Supply (AC 230 V ~, 50 Hz only)

DO NOT cut off the mains plug from this equipment. If the plug fitted is not suitable for the power points in your home or the cable is too short to reach a power point, then obtain an appropriate safety approved extension lead or consult your dealer.

BE SURE to replace the fuse only with an identical approved

type, as originally fitted and to replace the fuse cover.
If nonetheless the mains plug is cut off ensure to remove the fuse and dispose of the plug immediately, to avoid a possible shock hazard by inadvertent connection to the mains supply.

IMPORTANT

DO NOT make any connection to the terminal which is marked with the letter E or by the safety earth symbol or coloured green or green-and-yellow.

The wires in the mains lead on this product are coloured in accordance with the following code:



As these colours may not correspond with the coloured markings identifying the terminals in your plug proceed as

The wire which is coloured blue must be connected to the terminal which is marked with the letter N or coloured black.

The wire which is coloured brown must be connected to the terminal which is marked with the letter L or coloured red.

IF IN DOUBT-CONSULT A COMPETENT ELECTRICIAN.

■ Safety precaution about RC-QW35

 Check the power transformer marking, and check that the power transformer is securely installed.

Parts number: V-2409T-B

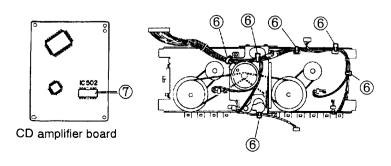
Check the power cord marking, and check that the powr cord is not externally damaged.

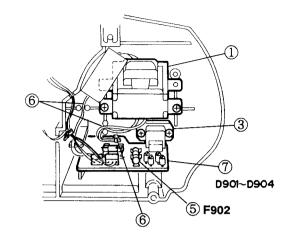
	B VERSION	E/G/GI/EN VERSION
Cord mark:	BS6500	\triangleleft VDE \triangleright
Attachment plug:	ASTABEF179	KP-419C
Connect plug:	M1250A	KS-15E

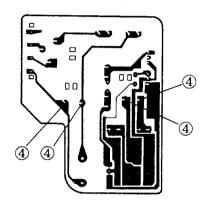
- Check the AC socket marking, and check that the AC socket is tightly fixed in the P.C.board when installed. HSC1466.
- 4. Check that there is sufficient space for the primary and adjacent secondary terminal parts on the P.C.board (There should be no protrusions of solder or terminal wires.)
- 5. Check the rated fuse display, and check that the fuse is secure in the fuse holder. F902 P: T2.5 A / 250 V
- 6. Check that the wires are neatly arranged so that they do not interfere with sections involving power, moving parts, heat generation, or those with sharp-edged parts.
- 7. The following parts are important for safety in such operations as those involved with heat generation. Use the specified parts and check original shape. Heat generating parts should be suspended above the P.C.board not fallen down. Parts marked with ______ are safety control parts.

 [IC302.][HEAT SINK] [D901] [D902] [D903] [D904] [Q901]

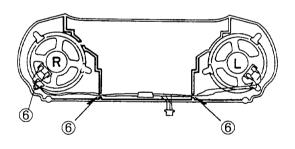
Q908, Q906, IC502, R122, R222,

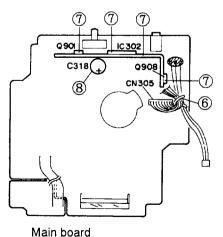






Power supply board











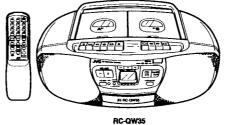


CD PORTABLE SYSTEM

RC-QW35/QS22 B









RC-QS22



INSTRUCTIONS

Thank you for purchasing this JVC product. Please read these instructions carefully before starting operation to be sure to obtain optimum performance and a longer service life from the

CONTENTS Features Safety precautions Handling precautions Power supply Names of parts and their functions Remote control unit Switching the power on/off Volume and tone buttons .. Concerning compact discs Playing compact discs . Cassette tape ... Cassette playback Relay playback (RC-QW35 only) Radio reception . Recording . Dubbing (synchro start dubbing) (RC-QW35 only) Maintenance Troubleshooting 19 Specifications 19

TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.



REFER SERVICING TO QUALIFIED SERVICE PERSONNEL



The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's en-closure that may be of sufficient magnitude to constitute a risk of electric shock to persons

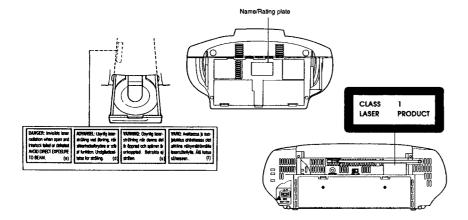


The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and mainte-nance (servicing) instructions in the literature accompanying the appliance.

IMPORTANT FOR LASER PRODUCTS

- CLASS 1 LASER PRODUCT
- DANGER: Invisible laser radiation when open and interlock failed or defeated. Avoid direct exposure to beam.
- CAUTION: Do not open the rear cover. There are no user serviceable parts inside the unit, leave all servicing to qualified service personnel.
- CAUTION: The compact disc player uses invisible laser radiation and is equipped with safety switches which prevent the emission of radiation when the CD tray is open. It is dangerous to defeat the safety switches.
- CAUTION: Use of controls for adjustments and the performance of procedures other than those specified herein may result in exposure to hazardous radiation.

REPRODUCTION OF LABELS AND THEIR LOCATION



IMPORTANT (In the United Kingdom) Mains Supply (AC 230 V ~, 50 Hz only)

DO NOT cut off the mains plug from this equipment. If the plug fitted is not suitable for the power points in your home or the cable is too short to reach a power point, then obtain an appropriate safety approved extension lead or consult your

BE SURE to replace the fuse only with an identical approved type, as originally fitted and to replace the fuse cover. If nonetheless the mains plug is cut off ensure to remove the fuse and dispose of the plug immediately, to avoid a possible shock hazard by inadvertent connection to the mains supply.

IMPORTANT

DO NOT make any connection to the terminal which is marked with the letter E or by the safety earth symbol or coloured green or green-and-vellow

The wires in the mains lead on this product are coloured in accordance with the following code:



As these colours may not correspond with the coloured markings identifying the terminals in your plug proceed as

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The wire which is coloured brown must be connected to the terminal which is marked with the letter L or coloured red.

IF IN DOUBT-CONSULT A COMPETENT ELECTRICIAN.

FEATURES

- 1. One-touch operation (COMPU PLAY) (only when AC power is used)
 - When a source button (CD, tape, or tuner) is pressed, the unit's power is turned on and initiates playback even when the power is set to STANDBY.
- 2. 24-key remote control unit opens and closes the motordriven CD tray and operates the usual CD and tuner functions
- The remote control controls power ON/OFF switching, volume control, tone control and Bass Boost ON/OFF switching.
 3. Double cassette mechanism (Deck A for recording and
- playback, Deck B for playback) (RC-QW35)
 Synchro-start dubbing function.
 Relay playback (from Deck B to Deck A).
 Single cassette mechanism (RC-QS22)
- 2-Band digital synthesizer tuner with 30-station (15 FM and 15 AM) preset capability
 - Seek/manual tuning
- Auto preset tuning.
 Bass Boost button for low-frequency sound reproduc-
- 6. Beat Cut switch

SAFETY PRECAUTIONS

Prevention of Electric Shocks, Fire Hazards and Damage

- 1. Even when the POWER button is set to STANDBY, a very small current will flow. To save power and for safety when not using the unit for an extended period of time, disconnect the power cord from the household AC outlet.
- Do not handle the power cord with wet hands.
- When unplugging from the wall outlet, always grasp and pull the plug, not the power cord.

 Consult your nearest dealer when damage, disconnection,
- or contact failure is found with the cord.
- Do not bend the cord sharply, or pull or twist it.
- Do not modify the power cord in any manner.
- Do not remove screws to disassemble the unit and do not touch anything inside the unit to avoid accidents. Do not insert any metallic objects into the unit.
- Unplug the power cord when there is a possibility of
- 10. If water gets inside the unit, unplug the power cord from the
- outlet and consult your dealer.

 11. Do not block the ventilation holes of the unit so that heat can
- Do not install the unit in a badly ventilated place.
- Since the RC-QW35/QS22 uses a motor-driven CD tray, make sure your hand or other object does not obstruct tray movement.

Power button

When the power cord is connected to a household AC outlet, the power indicator is lit red, indicating STANDBY mode (this indicator does not light when DC power is supplied). When the power is switched on, the indicator turns green showing that the power is on (this indicator lights with both AC and DC power supplies).

When this unit is plugged into an AC outlet, it consumes a small current to operate the remote control, or to back up the memory of the microprocessor, even when the POWER button is set to STANDBY.

Do not use this unit in direct sunlight or leave the unit in closed automobiles (or yachts, etc.) where it would be exposed to high temperatures above 40°C.

1. Avoid installing in the following places

- Where it could be subject to vibrations
- Where it is excessively humid, such as in a bathroom. Where it could be magnetized by a magnet or speaker.
- 2. Pay attention to dust.

Be sure to close the CD tray so that dust does not collect on

3. Condensation

- In the following cases, condensation may occur in the unit, in which case the unit may not operate correctly.

 In a room where a heater has just been switched on.
- In a place where there is smoke or high humidity.
- When the unit is moved directly from a cold to a warm room

In these cases, set the POWER button to ON and wait 1 or 2 hours before use.

4. Volume setting

Compact discs produce very little noise compared with analog records. When the volume control of an amplifier is adjusted by listening to the noise as is done with analog records, the speakers could be damaged by the sudden increase of output when the music starts. Therefore, turn down the volume before starting and adjust as required while playing a CD.

5. Safety mechanism

- This unit incorporates a safety interlock mechanism which switches the laser beam on and off, so that when the disc tray is open, the laser beam stops automatically,
- Do not place cassette tapes, etc. near the speakers. Since there are magnets in the speakers, do not place tapes or magnetic cards on them as recorded data could be
- Keep this unit away from your TV.
- When this unit is used near a TV, the TV picture could be distorted. If this happens, move this unit away from the TV. If this does not correct the situation, avoid using this unit when the TV is turned on.

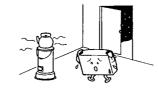
Cleaning the cabinet

- If the cabinet gets dirty, wipe it with a soft, dry cloth. Never use benzine or thinner as these could damage the surface
- When listening with headphones

 Do not listen at high volumes as it could damage your hearing.
 For safety, do not drive while listening to this unit.

10. Carrying handle

Do not raise or lower the carrying handle with the telescopic antenna extended, to avoid damaging the antenna. Place the carrying handle so that it does not interfere with opera-



POWER SUPPLY

A. Operation on household AC

Connect the AC power cord.

- 1. ONLY USE WITH JVC POWER CORD PROVIDED WITH THIS UNIT TO AVOID MALFUNCTION OR DAMAGE TO THE UNIT. REMOVE BATTERIES WHEN USING THE POWER CORD.
- 2. BE SURE TO UNPLUG THE POWER CORD FROM THE OUTLET WHEN GOING OUT OR WHEN THE UNIT IS NOT IN USE FOR AN EXTENDED PERIOD OF TIME.

B. Operation on batteries

- Loading batteries
 Open the battery cover by pulling it toward you while pressing the sections marked by the arrows.
- 2. Insert seven "R20/D (13F)" size batteries as shown in the
 - Be careful to insert the batteries with the \oplus and \ominus terminals positioned correctly.
- Replace the cover.

4



When the tape speed or output sound decreases, or CD playback is intermittent, replace all batteries with fresh ones. When making an important recording, use new batteries (preferably alkaline batteries with a longer service life) to avoid any possible failure.

For better battery usage Continuous operation of the unit causes the battery power to be consumed quicker than noncontinuous operation Operation of the unit in a cold place causes the battery power to be consumed more quickly than in a warm place.

- WHEN NOT USING THE UNIT FOR A LONG TIME (MORE THAN TWO WEEKS) OR WHEN ALWAYS USING HOUSHOLD AC, REMOVE THE BATTERIES TO AVOID A MALFUNCTION OR DAMAGE TO THE UNIT
- WHEN THE JVC POWER CORD PROVIDED WITH THIS UNIT IS CONNECTED. THE POWER IS AUTOMATI-CALLY SWITCHED FROM THE BATTERIES TO THE HOUSEHOLD AC EVEN WHEN THE BATTERIES ARE LOADED. HOWEVER, REMOVE THE BATTERIES WHEN USING THE POWER CORD.

CAUTIONS WHEN USING BATTERIES:

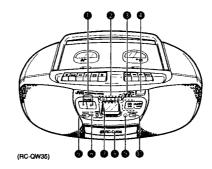
When batteries are used incorrectly, it may result in the leakage of chemicals from the batteries or they may explode. The following care should be taken;

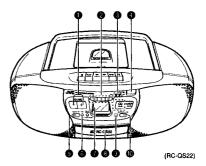
- Check that the positive ⊕ and negative ⊝ terminals of the batteries are positioned correctly and load them as shown in the diagram.
- Do not mix new and old batteries together, or mix
- different types of batteries.
 Do not try to recharge non-rechargeable batteries.
 Remove the batteries when the unit is not to be used for an extended period of time.

If chemicals from the batteries come in contact with your skin, wash them off immediately with water. If chemicals leak onto the unit, clean the unit completely.

NAMES OF PARTS AND THEIR FUNCTIONS

CD player/General section





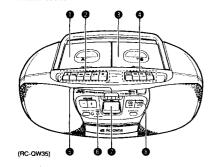


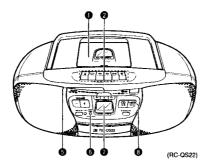
- **VOLUME** buttons CD operation buttons Search buttons (► ► ►) Stop/clear button (B) Play/pause button (CD/I>II)

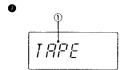
 ■ POWER indicators
- GREEN: POWER ON RED: STANDBY
- POWER button **BASS BOOST button** TONE button
 - Display window

 ① Playback indicator (►) Pause indicator (88)
- BASS BOOST indicator (BASS BOOST)
- Repeat playback indicator (
 ALL)
 Track number display Playback time display
- CD tray Remote sensor section
- CD tray open/close button (▲ OPEN/CLOSE)

Deck/Tuner section









 Cassette holder (Deck A) (RC-QW35) Cassette holder (RC-QS22)

Cassette operation buttons (from left to right)

• REC: Press this button with PLAY/TAPE button to

PLAY/TAPE:

44:

start recording.
Press to play the tape.
Press to rewind the tape rapidly. Press to wind the tape forward rapidly.

STOP/EJECT: Press to stop the tape. Pressing this button

when the tape has stopped opens the

cassette holder.

Press to stop the tape momentarily. Press again to release the pause mode.

Cassette holder (Deck B) (RC-QW35)

Cassette operation buttons (from left to right) (RC-QW35)
PLAY/TAPE: Press to play the tape.

Press to rewind the tape rapidly.

Press to wind the tape forward rapidly.

STOP/EJECT : Press to stop the tape. Pressing this button when the tape has stopped opens the

cassette holder

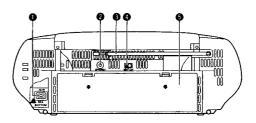
TUNING buttons (UP/DOWN)
PRESET TUNING (•) button
AUTO PRESET (—) button

Display window

(1) Tape mode display
(2) Band indicator (FM/AM)
(3) Radio frequency display
Preset station display

STEREO indicator
 MONO indicator
 TUNER (FM/AM) button

Press to select TUNER mode. Press to select the band (FM/AM). Rear panel



AC IN (AC Input) jack Headphones jack (PHONES) (3.5 mm dia. stereo mini) Connect headphones (with impedance 16 Ω – 1 k Ω) to this jack. The speakers are automatically switched off when the headphones are connected.

Telescopic antenna

BEAT CUT switch Battery compartment cover

REMOTE CONTROL UNIT

Preparation before use

- Installing batteries in the remote control unit
 Remove the battery cover from the back of the remote
- control unit.

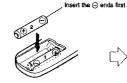
 2. Insert two "R6/AA (15F)" size batteries.

 Insert the batteries with the ⊕ and ⊖ terminals matching the indication inside the battery compartment.
- 3. Replace the cover.

Battery replacement
When the remote control operation becomes unstable or the distance from which remote control is possible becomes shorter, replace the batteries with new ones.











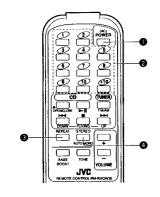
Using the remote control unit

To use the remote control unit, point it at the remote sensor section and press the buttons gently and firmly. Remote control operation is possible within about 7 m (approx. 23 ft). However, since the remote control range is less when the unit is used at an angle, use directly in front of the remote sensor section, as far much possible.

Do not expose the remote sensor section to strong light (direct sunlight or artificial lighting) and make sure that there are no obstacles between the remote sensor section and theremote control unit.

The following operations can be performed using the remote control unit.

Check the functions of the operation buttons carefully and operate them correctly.



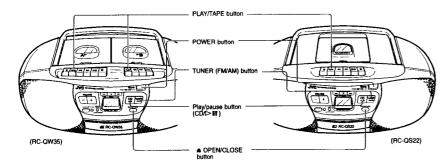
POWER (AC) button

- When power is supplied from the batteries, even when the button is pressed, the RC-QW35/QS22 will not be switched on. Switch on the POWER button of the main
- unit first, then perform operations.

 Track (tune) number buttons (No. 1 to No. 10, +10)
 Preset station buttons (No. 1 to No. 10, +10)
- CD operation
 REPEAT : Re
 TUNER operation : Repeat playback button
- STEREO AUTO/MONO : To select FM mode.
- · Buttons without explanation function identically to their respective buttons on the main unit.

When running the main unit on batteries, operate after switching on the main unit POWER button.

SWITCHING THE POWER ON/OFF



Switching the power on/off

· Switching on:



The green indicator lights.

· Switching off:



The red indicator lights. (The indicator does not light when DC power is supplied.)

COMPU PLAY (only when AC power is used)

Even when the power is set to STANDBY, pressing the button shown below switches on the power and selects the source.

			Function mode	Operations
	CD ⊳"		CD	When this button is pressed with a CD loaded, CD playback begins.
(RC-QW35)	eck A or Deck B	PLAY	TAPE	When this button is pressed with a tape loaded, tape playback begins.
(RC-QS22)	PĽÁY		TAPE When this button is pressed with a tape loaded, tape playd	
	TUNER		TUNER	When this button is pressed, the tuner is engaged.

· When the CD tray Open/close (a OPEN/CLOSE) button is pressed, the source sound does not switch over, the CD tray can open or close.

- When switching off the power, be sure to press the POWER button, (When the POWER is switched off with the CD tray open, the CD tray is closed and then the power is switched off.)
- Position the front panel away from you when carrying this unit to avoid accidentally pressing the POWER button.

VOLUME AND TONE BUTTONS

VOLUME buttons

+: Use to increase the volume.
-: Use to decrease the volume.
(control range from VOL 0 to VOL 25.)



TONE button

To set the tone level, press this button and adjust using the VOLUME buttons. The level setting ranges are from -6 to 6.



RC-QW35BKB/E/EN/G

CONCERNING COMPACT DISCS

Since dirty, damaged and warped discs may damage the unit, care should be taken of the following:

1. Usable compact discs

Use compact discs with the mark shown

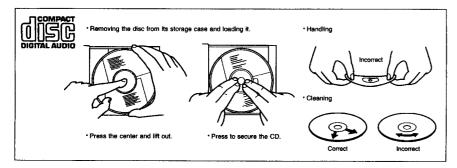
2. Notes on handling discs

- Do not touch the reflective recorded surface.
- Do not stick anything to or write anything on the label
- Do not bend compact discs.

- Storage
 After removing a disc from the unit, be sure to put it back
 - Do not expose discs to direct sunlight, high tempera-tures from a heater, etc., high humidity, or dust.

 Cleaning discs
 Before loading a disc, wipe off any dust, dirt or fingerprints with a soft cloth. Discs should be cleaned by wiping radially, from the center to the edge.

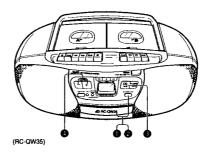
Never use thinner, benzine, record cleaner or antistatic

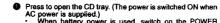


PLAYING COMPACT DISCS

Playing an entire disc ... The following example assumes a compact disc with 12 tunes and a total playing time of 48 minutes 57 seconds.

Operate in the order shown.





AC power is supplied.)

When battery power is used, switch on the POWER button first, then perform operations.

Load a disc with the label side facing up. Press to close the CD leav. (The tray can be closed by pressing the CD/b=II button.

Press to start play.

8-cm compact discs can be used in this unit without an adapter.

When the CD tray is closed by pressing the CD/I> to button, the CD starts playing as soon as the tray is closed.

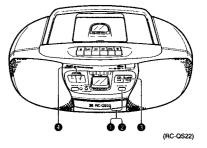
To stop play

· To stop in the middle of a disc During playback, press the m/clear button to stop play.





The total number of tracks (tunes) and total playing time



To stop a disc temporarily
Press the CD/>III button to stop play temporarily. When pressed again, play resumes from the point where it was

Notes:

The following indication may be shown when a disc is dirty or scratched, or when the disc is loaded upside down. In such a case, check the disc and insert again after cleaning the disc or turning it over.

When a CD is not loaded in the tray or when "scaces" is displayed, the CD tray opens when the CD/I⊳ II button is



Do not use the unit at excessive high or cold tempera-tures. The recommended temperature range is from 5°C (41°F) to 35°C (95°F).

After playback, unload the disc and close the CD tray. If mistracking occurs during play, lower the volume. Mistracking may occur if a strong shock is applied to the unit or if it is used in a place subject to vibrations (i.e. in a car travelling on a rough road).

Skip playback
 During playback, it is possible to skip forward to the beginning of the next tune or back to the beginning of the tune being played or the previous tune; when the beginning of the required tune has been located, play starts automatically.

To listen to the next tune ...

Press the button once to skip to the beginning of the next

To listen to the previous tune ...

Press the dutton to skip to the beginning of the tune being played back and press again to skip to the beginning of the previous tune

Search playback (to locate the required position on the

disc)

The required position can be located using fast-forward or reverse search while playing a disc.



- · Hold down the button; search play starts slowly and then
- gradually increases in speed.
 Since low-volume sound (at about one quarter of the normal level) can be heard in the search mode, monitor the sound and release the button when the required position is located.

Direct access playback (using the remote control)

- Pressing any of the track number buttons will start play from the beginning of the designated tune, without your having to press the CD ► It button.
- ress the button to set to the CD mode.
- Designate the required tune using the track number buttons.

 To designate tune numbers 1 to 10, press the track number button corresponding to the tune (track) number buttons.
- To designate tune number 11 or higher, press the +10 button the required number of times, then the track number button, (Example: To designate the 20th tune, press the +10 button once, then press track number button 10.)
- +10 button:

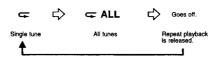
Each time this button is pressed, the number increases by 10. First press this button to set the 10's digit, then press the track number button to set the 1's digit.

To skip to another tune during play
When the required track number buttons is pressed, the display shows the designated track number and play starts from the beginning of the designated tune.

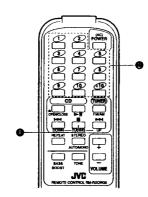
Repeat play (using the remote control)

Press the REPEAT button before or during play. A single tune or all the tunes can be repeated.

Whether a single tune or all tunes are to be repeated can be specified. Each time the REPEAT button is pressed, the mode will change from a single tune (), to all the tunes (ALL), to the clear mode, in this order



- Repeat playback of a single tune ()
 The tune being played back will be heard repeatedly.
- Repeat playback of all tunes (CALL)
 When playing back an entire disc, all tunes will be heard



CASSETTE TAPE

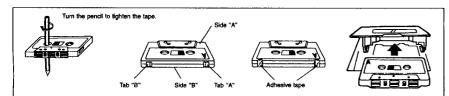
Cassette tape

12

- 1. Loose tape may cause trouble. With a pencil, gently tighten the tape as shown.
- 2. To prevent recordings from being erased accidentally, remove the tab(s) with a screwdriver. Reseal the slots with adhesive tape to erase and re-record after the tabs have been broken off.

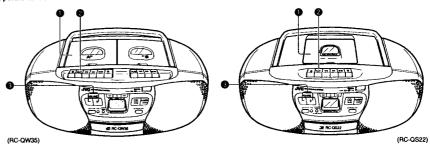
Cassette loading

- Press the #/# STOP/EJECT button to open the cassette holder
- Load a cassette as shown.
- Close the cassette holder by pressing it gently. Listen for the click that tells you that you've closed the holder securely.



CASSETTE PLAYBACK

Operate in the order shown.



- Load a cassette tape.
 Press to start playback. (The power is switched on, TAPE mode is engaged and tape playback starts.)
 When battery power is used, switch on the POWER
- button first, then perform operations.
- Adjust.
- Playback in Deck B (RC-QW35 only)
 The previous procedures also apply to Deck B when a cassette is loaded in Deck B. When Decks A and B are simultaneously set to the play mode, only the playback sound of Deck B is heard.

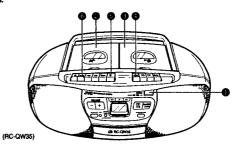
- When the power is turned off while the tape is still running, cassette operation buttons which are depressed do not return to the original positions.

 Press the m/a STOP/EJECT button to stop the tape running
- before turning off the power.

 2. Avoid operating the ▶ or ◄ button on the deck during playback of the other deck. (RC-QW35)

RELAY PLAYBACK (RC-QW35 ONLY)

(From Deck B to Deck A) Operate in the order shown.



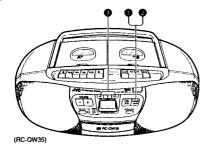
- Set the POWER button to ON. Load a cassette Load a cassette Press the PLAY/TAPE button on Deck B.
- Press the INPAUSE button.
 Press the PLAY/TAPE button on Deck A.

When Deck B stops, Deck A's pause mode will be released and it will start playback. When Deck A stops automatically, relay playback will be released.

RADIO RECEPTION

12 (No. 1972)

Operate in the order shown.





- Press the TUNER (FM/AM) button.
 The power is switched on and a band and radio frequency will be shown in the display.

 When battery power is used, switch on the POWER
- button first, then perform operations
- Select the band (FM or AM). Tune to the required station.

STEREO AUTO/MONO button (using the remote control)

Auto mode:

Set to this position when listening to or recording an FM stereo broadcast. The STEREO indicator lights when the FM stereo broadcast is received.

Set to this position when FM stereo reception is noisy. When another station is tuned to in mono mode, the unit automatically enters Auto mode

Seek tuning

Press the UP or DOWN button for one second or more; the unit enters the seek tuning mode and tunes to higher or lower frequencies, and when the broadcast is received, it stops tuning automatically and the broadcast can be heard.

Manual tuning

Each time the UP or DOWN button is pressed, the unit steps through the current frequency band. Tuning is in steps of 50 kHz for FM and 9 kHz for AM.



Notes:

When seek tuning to the required station is not possible because it is broadcasting too weak a signal, press the UP or DOWN button momentarily to perform manual tuning.

When the power is set to STANDBY, or another mode (TAPE)

(RC-QS22)

or CD) is selected, the last tuned frequency is stored in memory. When the power is switched on again and TUNER (FM/AM) button is pressed, the same station will be heard.

Auto preset tuning

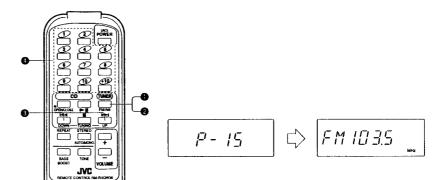
This function scans the current band (FM or AM), detecting frequencies used to broadcast signals, and stores the first

 Press the AUTO PRESET (—) button for more than 2 seconds. The frequencies of stations broadcasting signals. can be preset automatically in the order of increasing frequency (15 stations in each band (FM and AM).

The previous preset station is erased when a new station is set as the new station's frequency replaces the previous frequency in memory.

Presetting stations (using the remote control unit)

15 stations in each band (FM and AM) can be preset as follows: Example (when presetting an FM station broadcasting at 103.5 MHz to preset button "15")



Press the TUNER (FM/AM) button. Select the FM band using the TUNER (FM/AM) button.

Tune to the required station.

Press preset button "+10", then "5" for more than 2 sec. (When "15" blinks in the preset station display, the station

- Repeat the above procedure for each of the other stations, using a different preset button each time.
- Repeat the above procedure for the AM band.
- To change preset stations
 Perform step

 above after tuning to the required station.

- The previous preset station is erased when a new station is set as the new station's frequency replaces the previous frequency in memory.

 When listening to an AM broadcast, noise may be heard if
- the remote control is used.
- All preset stations will be erased when a power failure occurs for more than 48 hours or the power cord is unplugged for more than 48 hours. In such cases, preset the stations again.

Preset tuning

· The stations must be preset before this operation can be

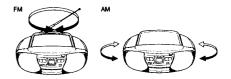
(Using the controls of the main unit)

- Press the TUNER (FM/AM) button.
 Select the band (FM or AM) using the TUNER (FM/AM)
- ③ Press the PRESET TUNING () button to select the required preset station.

(Using the remote control unit)

- Press the TUNER (FM/AM) button.
 Select the band (FM or AM) using the TUNER (FM/AM)
- 3 Press the required preset station buttons (No. 1-No. 10, +10).
- The preset station number and frequency corresponding to the button pressed are shown.

Using the antennas

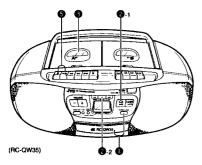


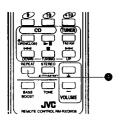
The built-in ferrite core antenna can pick up interference from television receivers in the neighborhood and thereby disturb AM

- In recording, the ALC circuit automatically optimizes the recording level; adjustment of the recording level is unnec-
- Check that the safety tab on the cassette tape is not broken
- To avoid malfunction, do not perform operations on deck B when recording. (RC-QW35)

Synchronized recording with the CD player
In this system, the CD player starts playback when the cassette deck enters the recording mode.

Operate in the order shown.



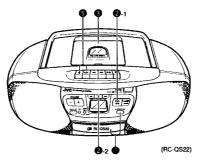


- When automatic spacing between tunes is not required ...
 Perform the following after finishing the previous operation (● to ●).
- Press the CD/I>II button of the CD player twice.
- The CD player enters the pause mode.

 ② Press the REC and PLAY/TAPE buttons simulta-Now, the CD player starts playback simultaneously.

Note:

This unit has recording/playback characteristics suitable for normal tapes. Normal tapes have different characteristics from CrO₂ and metal tapes.



- Load a disc and close the CD tray. Set CD mode.
- Load a cassette in the deck with side A facing up.
- (Wind past the leader tape before starting recording.)

 Set repeat mode to an appropriate position if needed. (cor
- □ ALL)
 □ Press the REC button with the PLAY/TAPE button; synchronized recording will start.
- Non-recorded sections of approx. 4 seconds are automatically left between tunes.
- When the tape reaches the end first, the CD player stops automatically; when the CD player stops first, the tape continues running. In this case, press the w/s STOP/EJECT button to stop the tape.
- During CD synchro recording, the CD/>■ and SEARCH (IIII and SEARCH
- During CD synchro recording, do not perform operations on Deck B. (RC-QW35 only)

It should be noted that it may be unlawful to re-record pre-recorded tapes, records, or discs without the consent of the owner of copyright in the sound or video recording, broadcast or cable programme and in any literary, dramatic, musical, or artistic work embodied therein.

Recording from the radio Operate in the order shown.

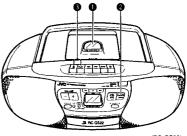




- Load a cassette with side A facing up.
 (Wind past the leader tape before starting recording.)

 Press the TUNER (FM/AM) button. Tune to the required
- Press the REC button with the PLAY/TAPE button.
- To stop recording temporarily, press the #IPAUSE button. To resume recording press the #IPAUSE button again.

When recording from the radio, do not perform operations on Deck B. (RC-QW35 only)



(RC-QS22)

BEAT CUT switch

When recording an AM broadcast, beats may be produced which are not heard when listening to the broadcast. In such a case, set this button after setting the deck to record mode so that the beats are eliminated. Normally set this switch to "NORM-1"

Erasing

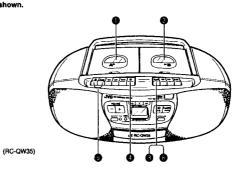
When recording on a pre-recorded tape, the previous recording is automatically erased and only the new material can be heard when the tape is played.

To erase a tape without making a new recording ...
Press the PLAY/TAPE button of the deck to set to the TAPE
mode and press the ● REC and PLAY/TAPE buttons together
after pressing the ■*aSTOP/EJECT button.

DUBBING (SYNCHRO START DUBBING) (RC-QW35 ONLY)

Normal speed dubbing can be done from Deck B to Deck A.

Operate in the order shown.



- Load a cassette. (Refer to the note on page 16.)
- Load a pre-recorded cassette.
 Lightly press the PLAY/TAPE button to set to the TAPE mode. (The button should not be locked.)
- Press the IIPAUSE button.

 Press the REC button with the PLAY/TAPE button.
- (Record-pause mode.)
 Press the PLAY/TAPE button. (Synchronized dubbing will

14 (No. 1972)

MAINTENANCE

Cleaning is important!
When the tape is running, magnetic powder and dust naturally accumulate on the heads, capstan and pinch roller. When they become too dirty ...
 sound quality deteriorates.
 the output sound level drops.

the previous sound is not completely erased.
 recording is not performed satisfactorily.

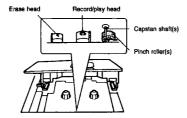
Because of this, you should clean the heads, etc. every 10 hours of use, so that perfect recording is possible.

Cleaning the heads, capstan and pinch roller

Open the cassette holder.

Clean the heads, pinch roller and capstan.
For effective cleaning, use a cleaning kit available from an audio

After cleaning, be sure that the cleaning fluid has dried com-pletely before loading a cassette.



Cautions:

- Keep magnets and metallic objects away from the head. If the head becomes magnetized, noise will increase and the tone will deteriorate. Demagnetize the head every 20-30 hours of use with a head eraser (available from an audio store). (When demagnetizing the head, the POWER button should be set to STANDBY).
 - As the erase head of this unit is of magnetic type, do not demagnetize it.
- 2. Do not use anything other than alcohol for cleaning. Thinner and benzine will damage the rubber pinch roller

TROUBLESHOOTING

What appears to be trouble is not always serious. Make

- 1. Power cannot be turned on. is the power cord unplugged?
- 2. No sound from the speakers. Are headphones connected?
- 3. The CD player does not play.
- Is the disc upside down?
- Is the disc dirty? 4. A certain portion of the disc does not play correctly.
- Is the disc scratched?
- · Cassette Deck Section
- 5. Playback sound is at a very low level.
- Is the head dirty?
 The REC button does not function.
- Have the safety tabs of the cassette been broken off?
- Tuner Section
- 7. Reception is noisy.

 * Try adjusting the antenna.
- · Remote Control
- 8. Remote control is impossible.
- Are the batteries in the remote control exhausted? Is the remote sensor section exposed to bright light (direct
- sunlight, etc.)?

Note: Before making an important recording, be sure to make a test recording first to check that the deck, etc. is working correctly.

SPECIFICATIONS

Compact disc player section

Compact disc player Type Signal detection Non-contact optical pickup

Number of : 2 channels

channels : 20 Hz - 20,000 Hz

Frequency range Signal-to-noise

: 90 dB

Wow & flutter : Less than measurable limit

Radio section

Frequency ranges : FM: 87.5 - 108 MHz AM: 522 - 1,629 kHz Telescopic antenna for FM Ferrite core antenna for AM Antennas

Tape deck section

: 4-track 2-channel stereo : Electronic governor DC motor for cap-Track system Motor

Heads (RC-QW35)

Deck A; Hard permailoy head for

recording/playback, Magnetic head for

Deck B: Hard permalloy head for play-

(RC-QS22)

Hard permalloy head for recording/ playback, Magnetic head for erasure : 80 - 12,500 Hz

Frequency response

Wow and flutter

: 0.15% (WRMS) : Approx. 120 sec (C-60 cassette) Fast wind time

General

10 cm x 2

Power output

: 10 cm x 2: Max. 10 W (5 W + 5 W) at 3 Ω . 8 W (4 W + 4 W) at 3 Ω (10% THD) : Headphones (0 – 20 mW/ch, 32 Ω) (matching impedance 16 Ω – 1 k Ω): AC 230 V, 50 Hz DC 10.5 V ("R20/D (13F)" cell x 7): 13 W (with POWER button ON) Output jacks

Power supply

Power

3 W (with POWER button STANDBY) : 450 (W) x 165 (H) x 250 (D) mm consumption

Weight

including knobs (RC-QW35) Approx. 4.9 kg with batteries Approx. 4.2 kg without batteries (RC-QS22)
Approx. 4.6 kg with batteries

Approx. 3.9 kg without batteries
AC power cord x 1
Remote control unit (RM-RXQW35) x 1
"R6/AA (15F)" batteries x 2 (for the re-Accessories provided

Design and specifications are subject to change without notice.

1 Location of Main Parts

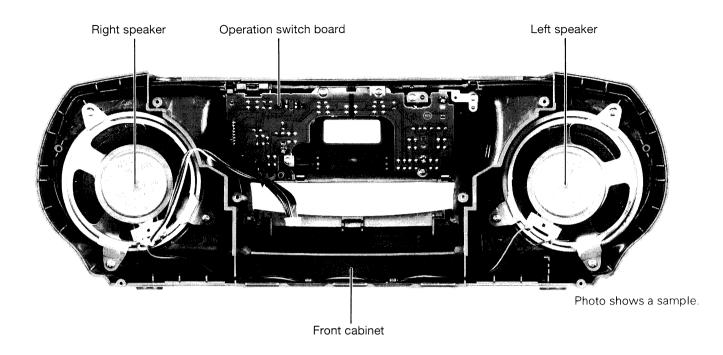


Fig. 1 – 1

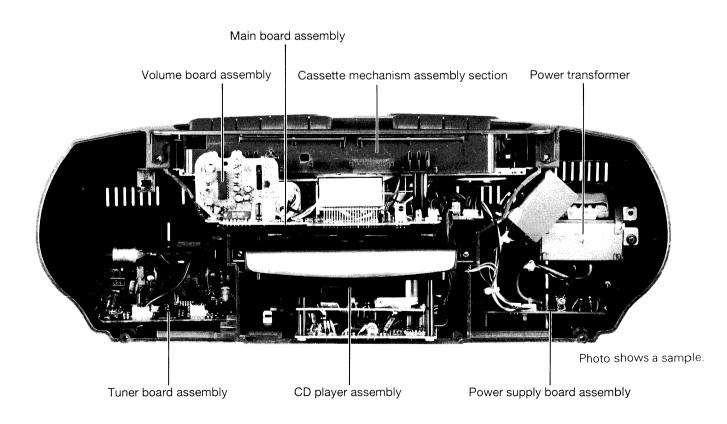
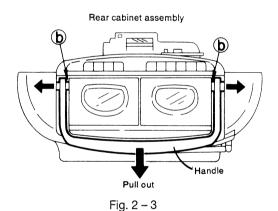


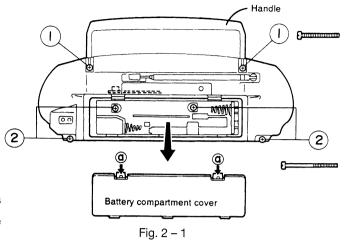
Fig. 1 – 2

2 Removal of Main Parts

◆ Removing the front and rear cabinet assemblies (Figs. 2-1 to 2-4)

- 1. At the rear of the main unit, press the two claws (a) of the battery compartment cover downward to remove the battery cover (Fig. 2-1).
- 2. Remove the two handle mounting screws ① and the four rear cabinet mounting screws ② . Then remove the front ② and rear cabinet assemblies (Fig. 2-1).
- Remove the speaker harness coming from the front cabinet assembly and the operation switch board harness connected to the CN704 and CN309 connectors on the main PCB (Fig. 2 – 2).
- 4. For removing the handle and top cover, extend the rear cabinet outwards (as indicated by the lateral arrows) and it is disengaged from the right and left fittings (b). Then, the handle can be removed in the direction of the arrow (rearwards).





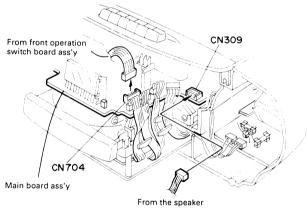


Fig. 2 - 2

◆ Removing the speakers and the operation switch PCB (Fig. 2 - 4)

- Remove the three right speaker mounting screws ③ and the speaker brackets. (Remove screws for the left speaker as well.)
- 2. Remove the three screws ④ retaining the switch board mounting screws.
- 3. Remove the one screw (5) retaining the speaker earth wire.

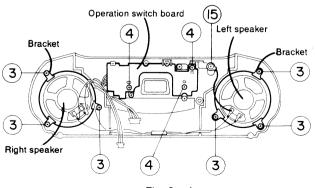


Fig. 2 - 4

♦ Removing the tuner PCB (Fig. 2 – 5)

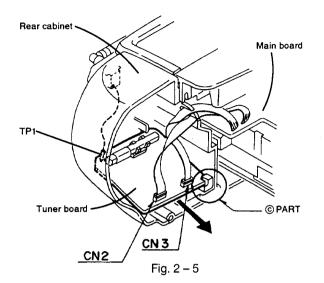
- 1. Remove connectors CN2 and CN3 on the tuner board.
- 2. Remove the antenna wire from TP1.
- 3. Disengage the board from the fitting of part © on the rear cabinet (in the direction shown with the arrow) and pull it out.

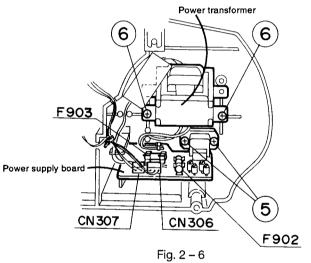
◆ Removing the power transformer and the power supply board (Fig. 2 – 6)

- 1. Remove the two screws ⑤ securing the AC terminal.
- Disconnect the two connectors (CN306 and CN307) on the power supply board.
- 3. Remove the two screws ⑥ securing the power transformer.
- 4. Pull the power supply board toward you and remove it together with the power transformer.

◆ Removing the volume PCB (Fig. 2 – 7)

- 1. Remove the screw ⑦ securing the volume board
- 2. Disconnect the connector CN310 from main board.





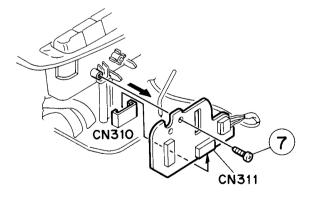
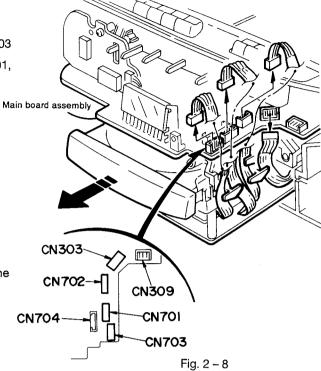


Fig. 2 - 7

◆ Removing the CD player assembly (Fig. 2 – 8)

1. Remove the harnesses CN701, CN702, CN703 and CN303 from the main board (connectors on main board CN701, CN702, CN703 and CN303).

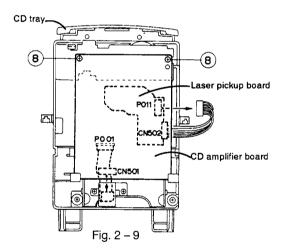


◆ Removing the CD amp PCB (Fig. 2 – 9)

- 1. Remove the two screws ® securing the CD amp PCB.
- Remove the harness of connector CN502 from P011 on the pickup PCB.
- 3. Remove the card wire coming from P001 from CN501.

ightharpoonup Removing the CD tray (Figs. 2 – 10 and 2 – 11)

- 1. Remove the two screws (9) for the CD tray stopper.
- Turn over the loading base assembly. Insert a Phillips driver in hole A of the CD tray motor assembly and turn the driver counterclockwise. The tray will be released.
- 3. When the tray is released, pull it out by hand.



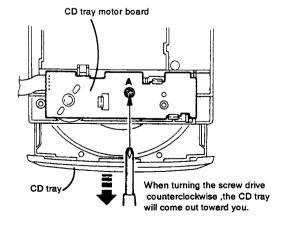


Fig. 2 - 11

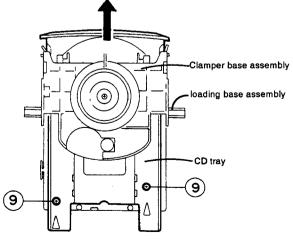


Fig. 2 - 10

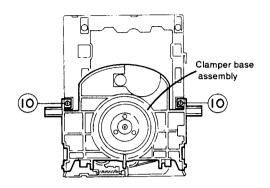
◆ Removing the clamper base assembly (Fig. 2 – 12)
Remove the two screws ⑩ securing the clamper base assembly.

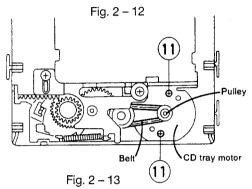
◆ Removing the CD tray motor (Figs. 2 – 13 and 2 – 14)

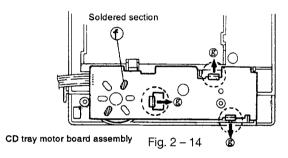
- 1. Remove the two screws ① securing the CD tray motor.
- 2. Disengage the belt from the CD tray motor base.
- 3. Turn over the CD tray motor base assembly.
- ☆ Desolder soldered section ⑤ on the CD tray motor PCB.
- ☆ Remove the PCB by opening the three claws ② on the CD tray motor PCB in the direction shown by the arrow.



- 1. Turn over the CD player assembly and remove the two screws ② securing the CD mechanism assembly.
- 2. To remove shaft in the upper part of the CD mechanism assembly from the fitting of section (h) (slot of the slide) of the loading base assembly, pull the CD mechanism assembly diagonally upward toward you.
- ★ To reassemble, move the slide of the loading base assembly in the direction shown with the arrow and insert the shaft in the upper section of the CD mechanism assembly into section ⊕ (slot of the slide).







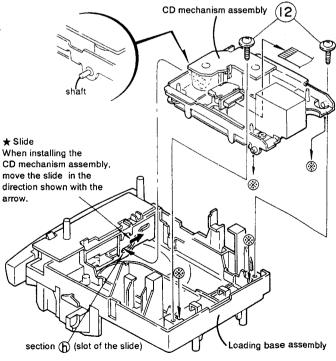


Fig. 2 - 15

◆ Removing the cassette mechanism assembly (Fig. 2 – 16)

- 1. Remove the handle (Fig. 2-3).
- 2. Remove the CD player assembly (Fig. 2 8).
- Remove the harness coming from connectors CN702 and FW302 on the main board from connectors CN3 and CN2 on the tuner board.
- 4. Remove the 3 pin connector coming from the main board from connector CN306 on the power supply board.
- 5. Remove the cassette mechanism assembly by pulling it out in the direction shown with the arrow.

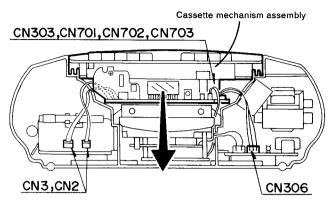
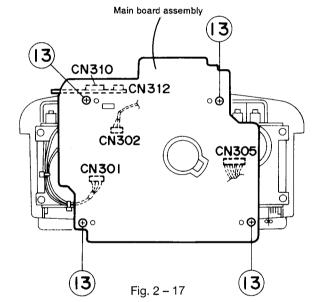


Fig. 2 - 16

◆ Removing the main PCB (Figs. 2 – 17 and 2 – 18)

- 1. Remove the four screws ③ securing the main board from the rear of the cassette mechanism assembly.
- Remove the harness coming from the cassette mechanism from connectors CN301, CN302 and CN305 on the main PCB. When connecting connector CN305, trim the harness by referring to Fig. 2 – 18.
- ☆ The volume board and main board are connected by a harness. To separate the main board completely from the rear cabinet, first remove the volume board. Refer to "Removing the microphone unit and the volume PCB".



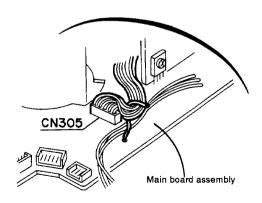


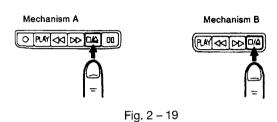
Fig. 2 – 18

Cassette mechanism assembly

◆ Removing the cassette mechanism

(Figs. 2 – 19 and 2 – 20)

- 1. Press the stop/eject buttons for mechanisms A and B to open the cassette doors (Fig. 2 19).
- 2. Remove the six screws (4) securing the cassette mechanism (Fig. 2 20).



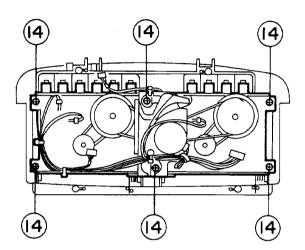


Fig. 2 - 20

◆ Removing the battery contact PCB (Fig. 2 – 21)

- Open the claw ① securing the battery contact board from the rear of the rear cabinet and pull out the battery contact board toward the rear panel.
- Remove the 2-pin connector coming from the battery contact board from connector CN703 on the power supply board.

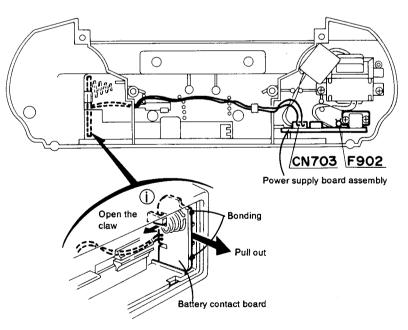
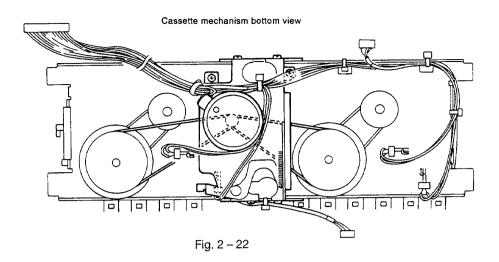


Fig. 2 – 21



◆ Removing the capstan motor (Figs. 2 – 22 and 2 – 23)

- 1. Separate the front and rear cabinet assemblies.
- 2. Remove the cassette mechanism assembly.
- 3. Remove the main board.
- 4. Remove the main belt from the flywheel assembly of mechanisms A and B.
- 5. Remove the three screws ② securing the capstan motor.

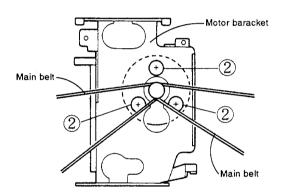


Fig. 2 - 23

◆ Removing the eject slide lever (Fig. 2 – 24)

- Press the stopper arm with a small minus driver as shown in the figure to release the stopper arm.
- 2. Remove the eject slide lever in the direction shown with the arrow ©.



- 1. Press the leaf switch in the direction shown with arrow @.
- 2. Remove the leaf switch by pressing it in the direction shown with arrow @.

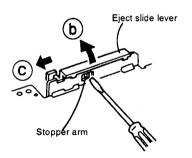


Fig. 2 - 24

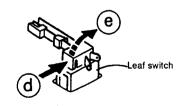
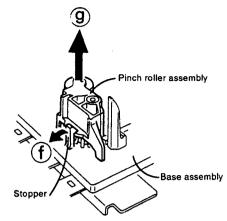
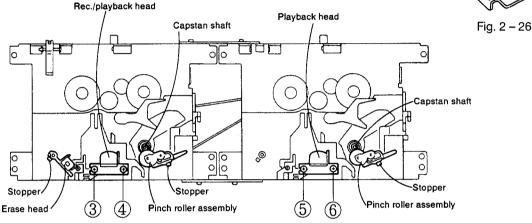


Fig. 2 – 25

◆ Removing the pinch roller (Fig. 2 – 26)

- 1. Detach the stopper from the pinch roller assembly by pulling it in the direction shown with arrow ①.
- 2. Pull out the pinch roller assembly in the direction shown with arrow ②.





Rec./play back mechanism assembly

play back mechanism assembly

Fig. 2 – 27

◆ Removing the rec/play head and erase head

(Figs. 2 - 27 and 2 - 28)

- 1. Remove the two screws ③ and ④ securing the rec/play head of mechanism A.
- 2. Remove the two screws ⑤ and ⑥ securing the play head of mechanism B.
- 3. Detach the stopper securing the erase head in the direction shown with arrow ①.
- 4. Pull out the erase head in the direction shown with arrow ①

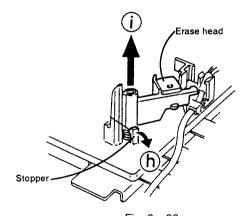
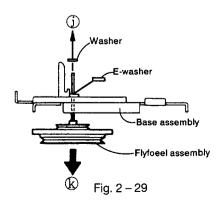


Fig. 2 – 28

◆ Removing the flywheel assembly (Fig. 2 – 29)

- 1. Remove the E washer securing the flywheel assembly and pull the washer out in the direction shown with arrow ③.
- 2. Pull the flywheel assembly from the cassette mechanism in the direction shown with arrow R.



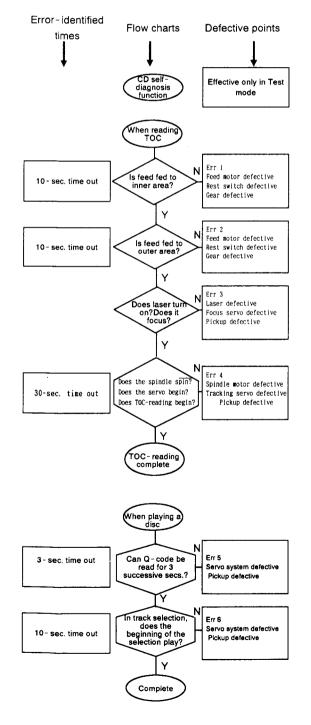
3 Troubleshooting

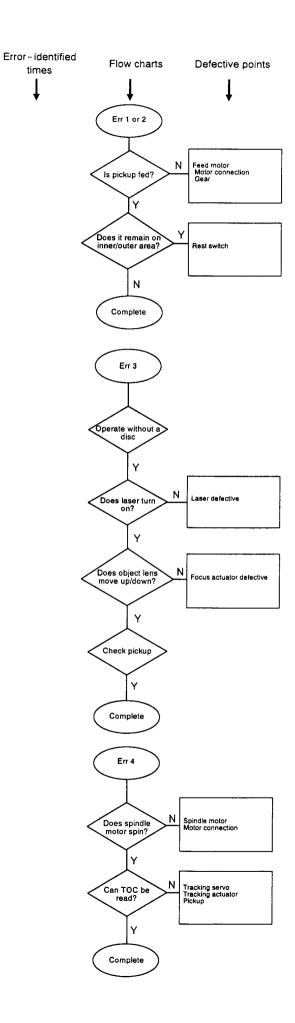
♦ HOW TO OPERATE THE CD SELF - DIAGNOSIS FUNCTION

♦ The CD Self-diagnosis Function

If any malfunction occurs in the CD player, this system can be set to make an error code indication appear on the LCD to point out the defective parts. This efficiently helps service personnel find the causes of the malfunction.

Test mode: CD STOP (■) + POWER ON



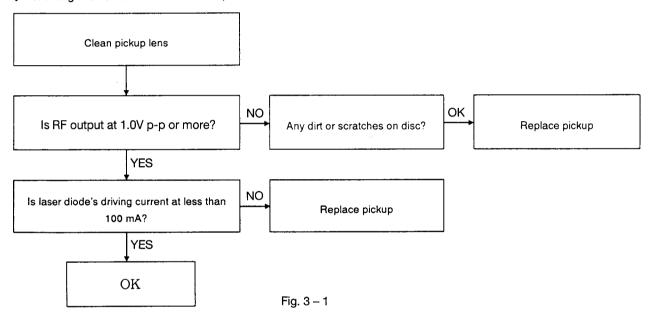


■ Pickup maintenance

(1) Checking the service life of laser diode

If a laser diode reaches the end of its service life, the following phenomena will show up. Similar symptoms may also appear when the pickuplens becomes too dirty. In this case, clean the lens.

- 1) The RF output (between TP502(RF) and TP501(VREF))
- 2) The driving current, necessary for the laser diode to emit lights, increases. (Calculate from the voltage level at both ends of the R505 at 10 Ω .)
- ◆ Following the flow chart shown below, check the service life.



♦ How to measure laser diode's driving current

After connecting a voltmeter at both ends of the R505(10 Ω), measure the voltage during playback. If the voltage level is at 1.0 V or more, the service life of the laser diode has expired.

Laser diode's driving current (A)

= Voltage level at both ends of R505 (V)/10 (Ω)

When voltage level is at 1.0 V:

 $1.0 \text{ V/} 10 \Omega = 0.1 \text{ A} = 100 \text{ mA}$

Note:

The laser diode easily breaks down. Be sure to turn the power off before connecting a voltmeter.

General descriptions of TOC (Table of Contents) readings

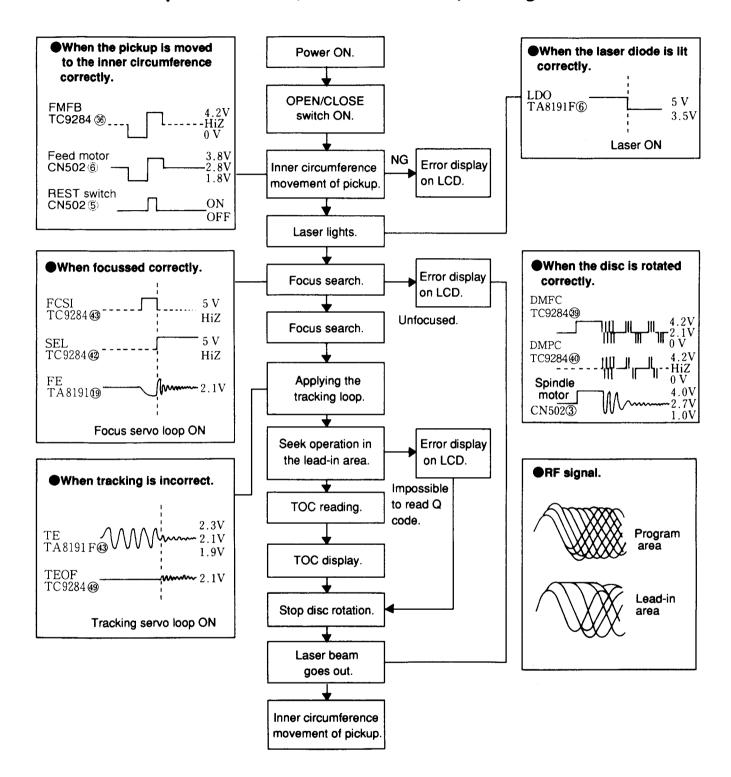


Fig. 3-2

■General section

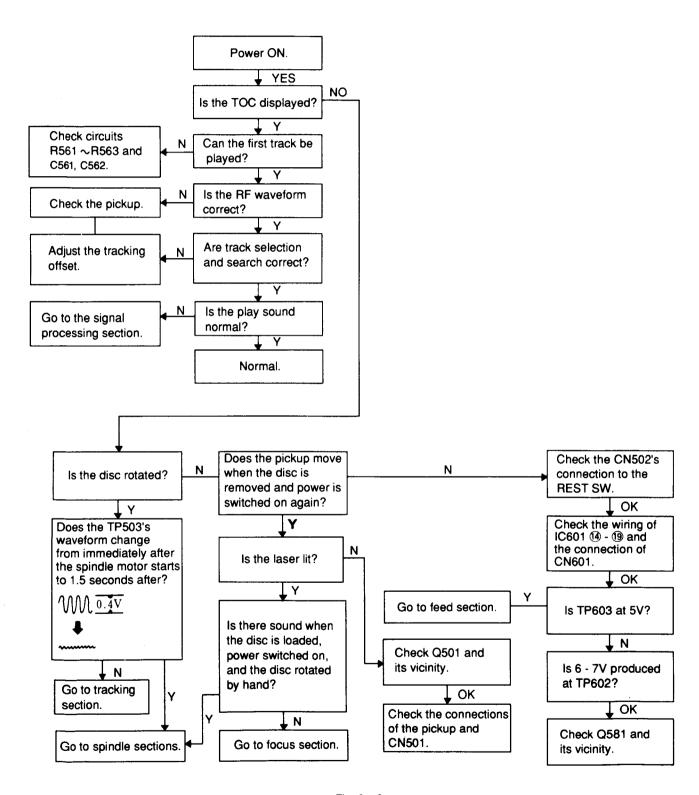


Fig. 3 – 3

Feed section

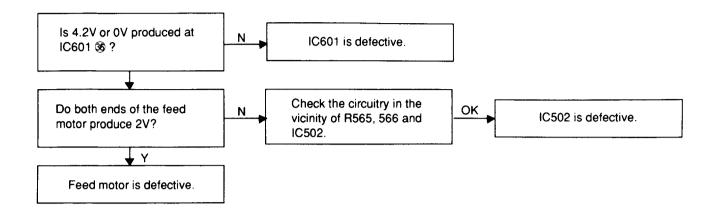


Fig. 3 – 4

Focus section

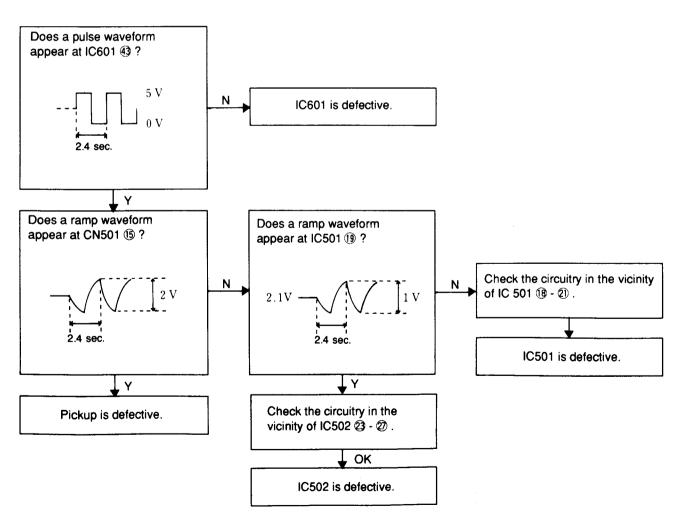


Fig. 3 – 5

■ Spindle motor section

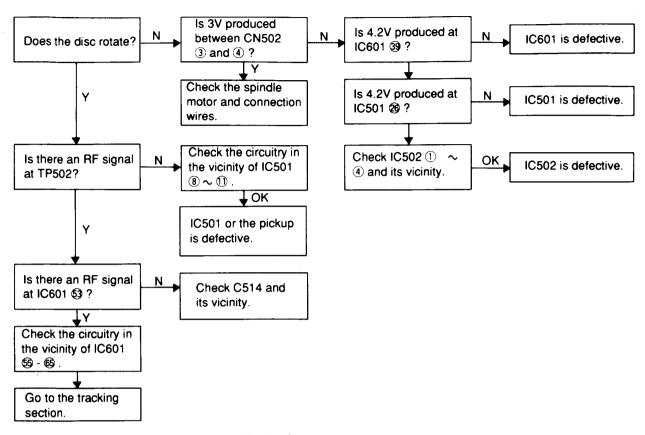


Fig. 3 – 6

Signal processing section

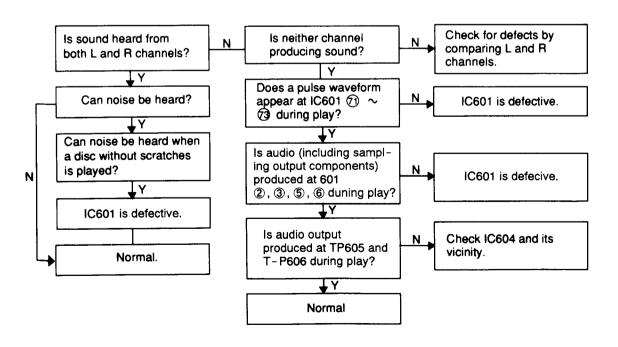


Fig. 3 – 7

■ Tracking section

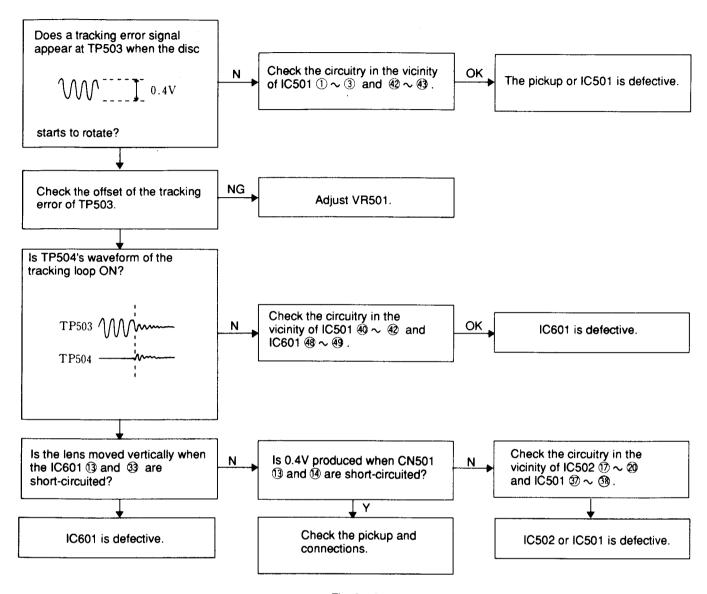


Fig. 3 – 8

4. Main Adjustments

■ Measuring instructions required for adjustment

- 1. Low-frequency oscillator(oscillation frequency 50Hz~20kHz, 0dB output with 600 Ω impedance)
- 2. Attenuator(600 Ω impedance)
- 3. Electronic voltmeter
- 4. Distortion meter
- 5. Torque gauge(cassette for CTG-N,
- 6. Wow & flutter meter
- 7. Frequency counter meter

♦ Test tape

Playback tape

VTT 712 or VT712 (tape speed ,wow flutter)

VTT 724 or VT724 (reference level)

VTT 739 or VT739 (playback frequency)

VTT 703 or VT703 (10kHz azimuth)

Recording tape

AC 224

Power supply voltage

Your local voltage

AC 230 V / 50 Hz

Measuring instruments

Radio section

- ♦ FM :400Hz, 22.5kHz deviation
- ♦ AM: 400Hz, 30%, modulation
- ♦ Reference output :

speaker output: 0dBs(0.755V)/3 Ω

H.phone output : -10dBs(0.245V)/32 Ω

♦ Standard position of function switch

Function switch: FM

Bass boost : OFF

Main volume: Reference output

Amplifier section

◇ Reference output :

speaker output 0dBs(0.755V)/3 Ω

H.phone output $-10dBs(0.245V)/32 \Omega$

♦ Standard position of function switch and volume

Function switch: TAPE

Mode switch: STEREO

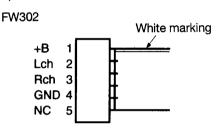
Beat cut switch: Normal (1 position)

Tone: Maximum

Reference input

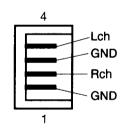
Recording input level: -30 dBs

Input point: FW302



Output terminal: CN309

CN309



- ♦ Other item
 - Standard recordingt current for recording :

Normal mode 33 µA

Bias oscillation frequency (Beat cut switch to normal):

 $75 \text{ kHz} \pm 3 \text{ kHz}$

• Standard bias current for recording :

Normal mode 500 μA

CD section

■ Cassette Amplifier Section

ltem	Measuring condition	Check and adjustment procedure	Standard value	Adjusting part
Head azimuth adjustment	• Test tape: VTT703 (10 kHz) • Signal output terminal: PHONES (with 32 Ω load)	 Play back the test tape VTT703 (10 kHz). Adjust the head azimuth adjusting screw so that the phase difference between the R and L channels is minimized at an output level that is within ±2 dB of the maximum output level of the deck A in the FWD and REV operations. After this adjustment, lock the head azimuth adjusting screw with screw sealant to cover more than a half of the screw head. When the head azimuth is maladjusted, correct it with the head azimuth adjusting screw in the FWD and REV operations alternately. 	Output level: Within ±2 dB of maximum output level Phase difference R and L channels: Minimum	Head azimuth adjusting screw (To be used only after head re- placement)
Tape speed and wow/ flutter check and adjust- ment	Test tape: VTT712 (3 kHz) Sigfnal output terminal: PHONES (with 32 Ω load)	 Play back the test tape VTT712 (3 kHz) by the end portion. Connect a frequency counter and check that it reads between 2940 and 3090 Hz. If not, adjust the frequency with the semi-fixed resistor VR303. Check that the wow/flutter is within 0.38% (unweighted.) 	• 2940 to 3090 Hz • Within 0.38% (unweighted)	• Tape speed: VR303
PB frequency response check	Test tape: VTT739 Signal output terminal: PHONES (with 32 Ω load)	Play back the test tape VTT739 while confirming that deviation between the 1 kHz signal and 10 kHz signal should be 0 ± 4 dB.	Deviation between 1 kHz and 10 kHz: 0 ± 4 dB	
Bias frequen- cy check	Tape: Normal Signal output terminal: Speaker	Set the BEAT CUT switch to the NORM-1, and check to see if the frequency at the measuring point is 75.5 ± 3 kHz. If not, adjust the frequency to be 75.5 ± 3 kHz. Then, change the setting of the BEAT CUT switch to the NORM-2 and NORM-3 positions to check to see if the measured frequency is equivalent to the standard value respectively.	Standard values • STD-1 position: 75.5 ± 3 kHz • STD-2 position: 72.5 ± 3 kHz • STD-3 position: 75.5 ± 3 kHz	
REC and PB frequency re- sponse adjust- ment	Test tape: AC224 Signal input/output terminal: FW302/PHONES	Set the TAPE SELECT switch to the NORMAL position and BEAT CUT switch to the STANDARD-1, and record the reference 1 kHz (-30 dB) signal and 8 kHz signal alternately repeatedly. While playing back the recorded signals, check to see if the output level of the 8 kHz signal differs from that of the 1 kHz signal by within +1 ± 4 dB.	Level difference between REC and PB: Within +1 ± 4 dB	
REC and PB sensitivity check	 Test tape: VTT724 (1 kHz), AC224 Signal input/output terminal: FW302/ PHONES 	Input the 1 kHz, -30 dBs signal through the input terminal FW302 and record it. While playing back the recorded signal, check to see if the playback output level at the measuring point is within 0 dBs as compared with the playback level of the test tape VTT724.	Within 0 dBs ± 3 dB	

■ Tuner Section

Item	Measuring condition	Check and adjustment procedure	Standard value	Adjusting part
IF adjustment FM tracking and MPX adjustment		 Free from adjustment because fixed IF element is employed Free from adjustment because ceramic oscillator is employed Free from adjustment because fixed coil is employed 		
AM tracking adjustment	BAND selector switch: AM Standard mode setting: AUTO Measuring point: CN2 for AM output Signal input: Standard loop antenna	 While receiving a 522 kHz signal from an AM signal generator to the tuner being set to the PRESET No. 1, check to see if the output of CN2 is maximum. When voltage at TP9 is higher than 5.0 V, adjust it to be 5.0 ± 0.1 V with L4. While receiving a 603 kHz signal from an AM signal generator to the tuner being set to the PRESET No. 3, maximize the output of CN2 with L3. While receiving a 1404 kHz signal from an AM signal generator to the tuner being set to the PRESET No. 4, maximize the output of CN2 with TC2. Repeat the above steps 3. and 4. to maximize the output of CN2. 	5.0 ± 0.1 V	L4 L3 TC2 L3, TC2

■ Location of adjusting position

• Cassette mechanism section

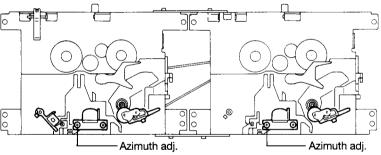


Fig. 4 – 1

TUNER board assembly

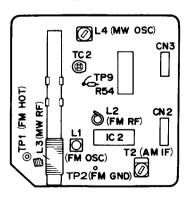
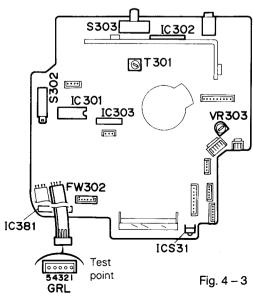


Fig. 4 – 2

● Main amplifier board assembly



■ CD player Section

Conditions	Adjustment & Confirmation Methods	Stand. values	Adjust
Test disc :CTS1000 Oscilloscope Note 1 Adjust VR501 so that the waveform becomes vertically symmetrical to the reference voltage value of servo. Note 2 The oscilloscope input should be DC — coupled. Note 3 VREF: Groud level on the oscilloscope.	① Connect TP503 (TE) and TP501 (VREF) respectively to the hot and ground sides of the oscilloscope. ② Replay the test disc CTS1000. ③ When TP504 and TP501 have been connected (Shorted) during replay, a tracking error signal will be emitted for about 3 sec. (Since the tracking error signal will be emitted at all times when the	Adjust the center of waveform amplitude to the reference voltage value of servo (VREF).	VR501
	Tracking error signal VREF	Adjust the water the systemmetric reference vo value of serv	rtically cal to the Itage
	Test disc :CTS1000 Oscilloscope Note 1 Adjust VR501 so that the waveform becomes vertically symmetrical to the reference voltage value of servo. Note 2 The oscilloscope input should be DC — coupled. Note 3 VREF: Groud level on the	Test disc :CTS1000 Oscilloscope Note 1 Adjust VR501 so that the waveform becomes vertically symmetrical to the reference voltage value of servo. Note 2 The oscilloscope input should be DC - coupled. Note 3 VREF: Groud level on the oscilloscope. ① Connect TP503 (TE) and TP501 (VREF) respectively to the hot and ground sides of the oscilloscope. ② Replay the test disc CTS1000. ③ When TP504 and TP501 have been connected (Shorted) during replay, a tracking error signal will be emitted for about 3 sec. (Since the tracking error signal will be emitted at all times when the model with a test mode function is shifted to TEST mode, the adjustment can be performed more easily). ④ Since the waveform of tracking error signal displayed by the oscilloscope goes up and down when VR501 has been adjusted, adjust VR501 so that the center of the waveform amplitude becomes a reference voltage value of servo(VREF). ⑤ Repeat the steps ② ~ ④ until the center of the waveform amplitude of tracking error signal becomes the reference voltage value of servo (This step is not necessary in the case of the model with test mode function). Tracking error signal	Test disc :CTS1000 Oscilloscope Note 1 Adjust VR501 so that the waveform becomes vertically symmetrical to the reference voltage value of servo. Note 2 The oscilloscope. Note 3 VREF: Groud level on the oscilloscope. (Separath the steps (2) - (4) until the center of the waveform amplitude of tracking error signal becomes the reference voltage that the center of the waveform amplitude becomes a reference voltage value of servo. Note 3 VREF: Groud level on the oscilloscope. (Tracking error signal the case of the model with test mode function). Adjust the center of waveform amplitude to the reference voltage value of servo (VREF). Adjust the center of waveform amplitude to the reference voltage value of servo (VREF).

■ Adjusting position (CD amplifier board)

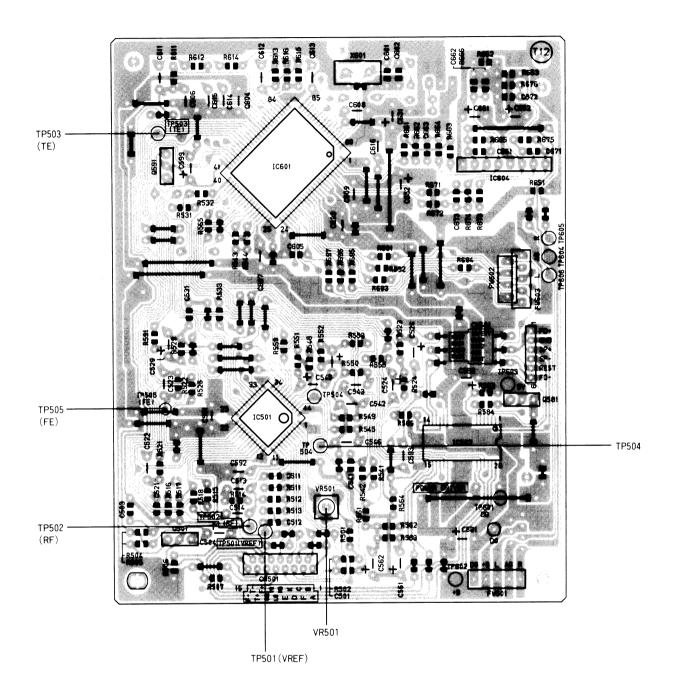
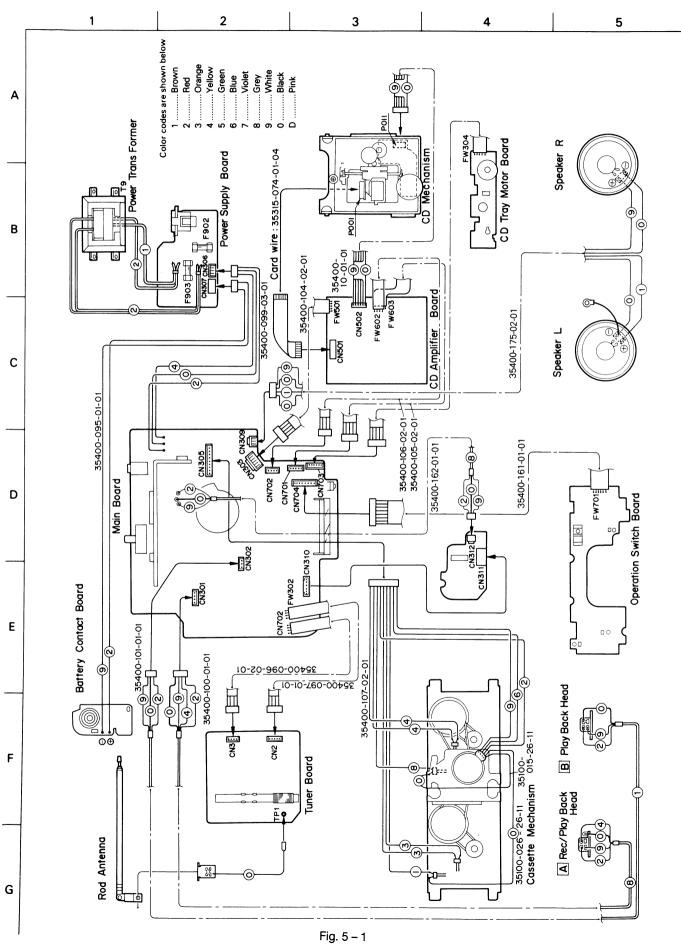


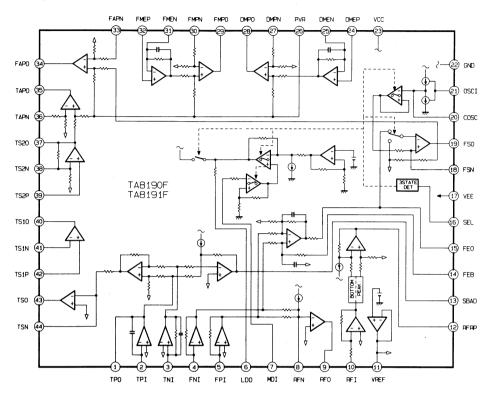
Fig. 4 – 4

5. Wiring Connections

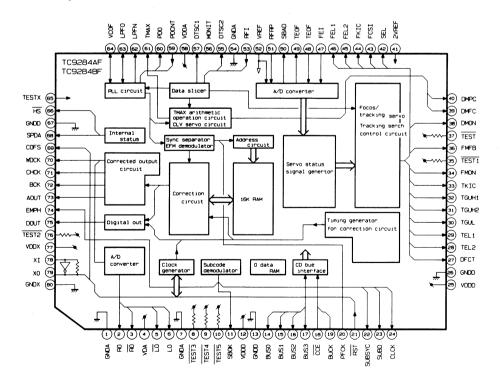


6. Block Diagram

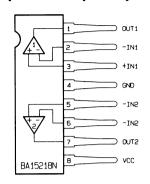
- Integrated circuit diagram
- ♦ IC501 (TA8191F) Servo



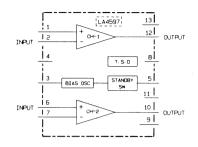
♦ IC601 (TC9284BF) Processor

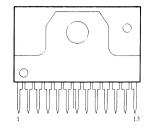


♦ IC604 (BA15218N) Low pass tilter

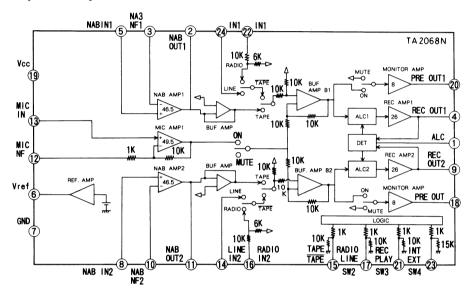


♦ IC302 (LA4597K) Power amp

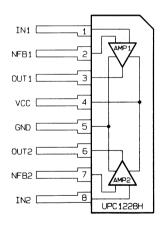




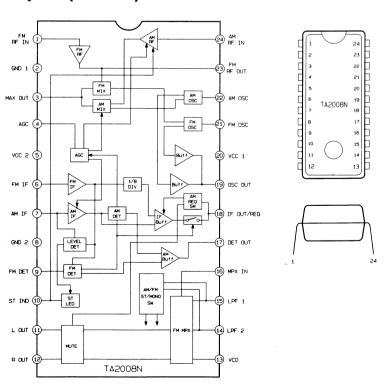
♦ IC301 (TA2068N) R/P amp/sw



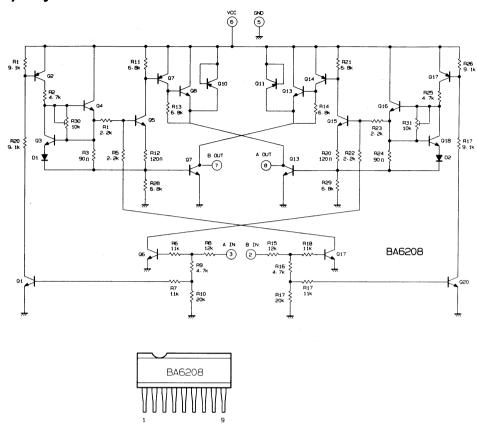
♦ IC303 (UPC1228HA) Head amp drive



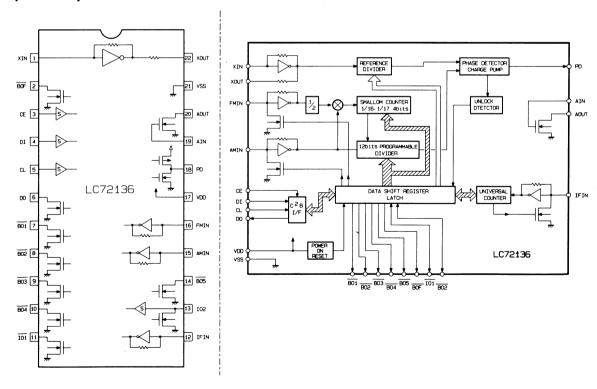
♦ IC2 (TA2008N) RF/IF/DET



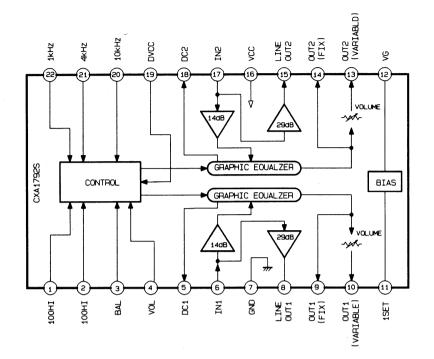
♦ IC802 (BA6208A) Tray motor

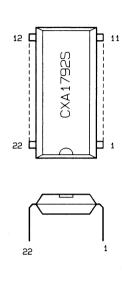


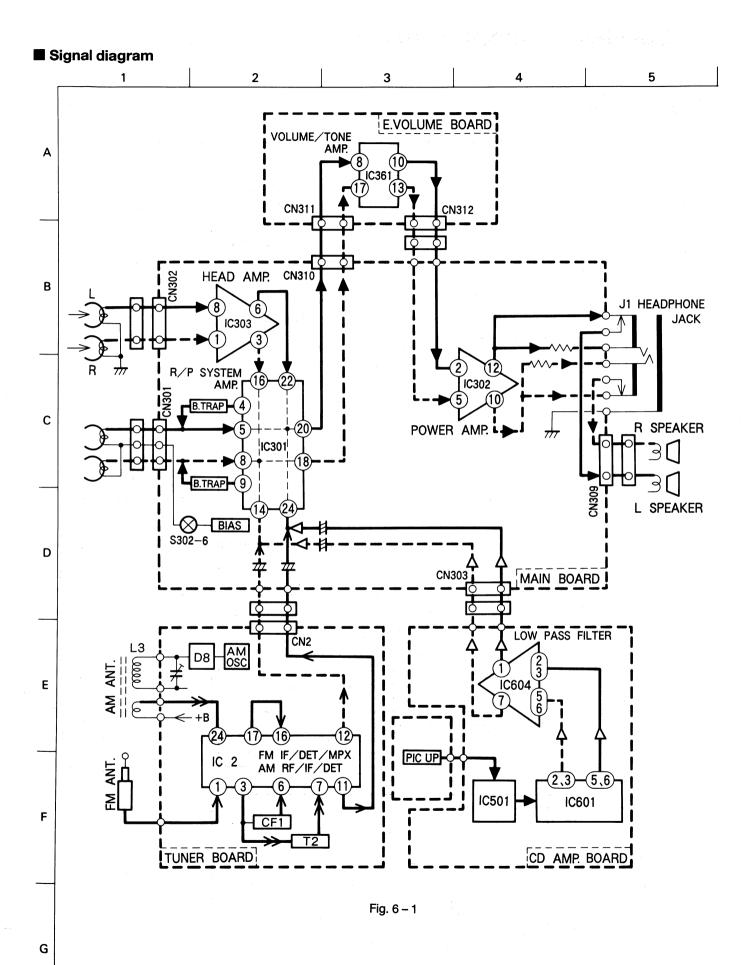
♦ IC3 (LC72136) PLL



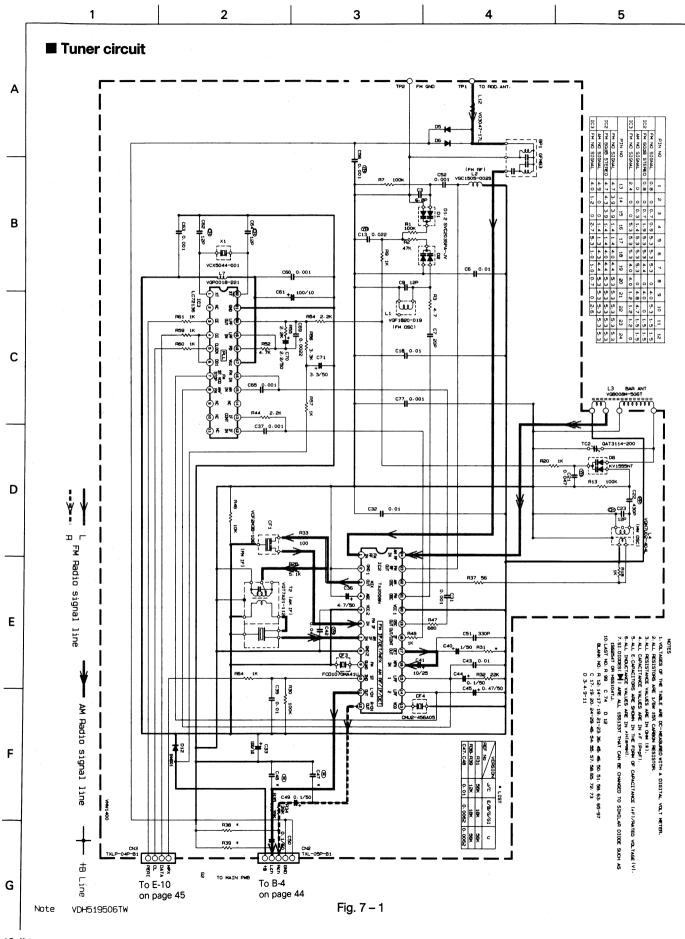
♦ IC361 (CXA1792S) E. Volume

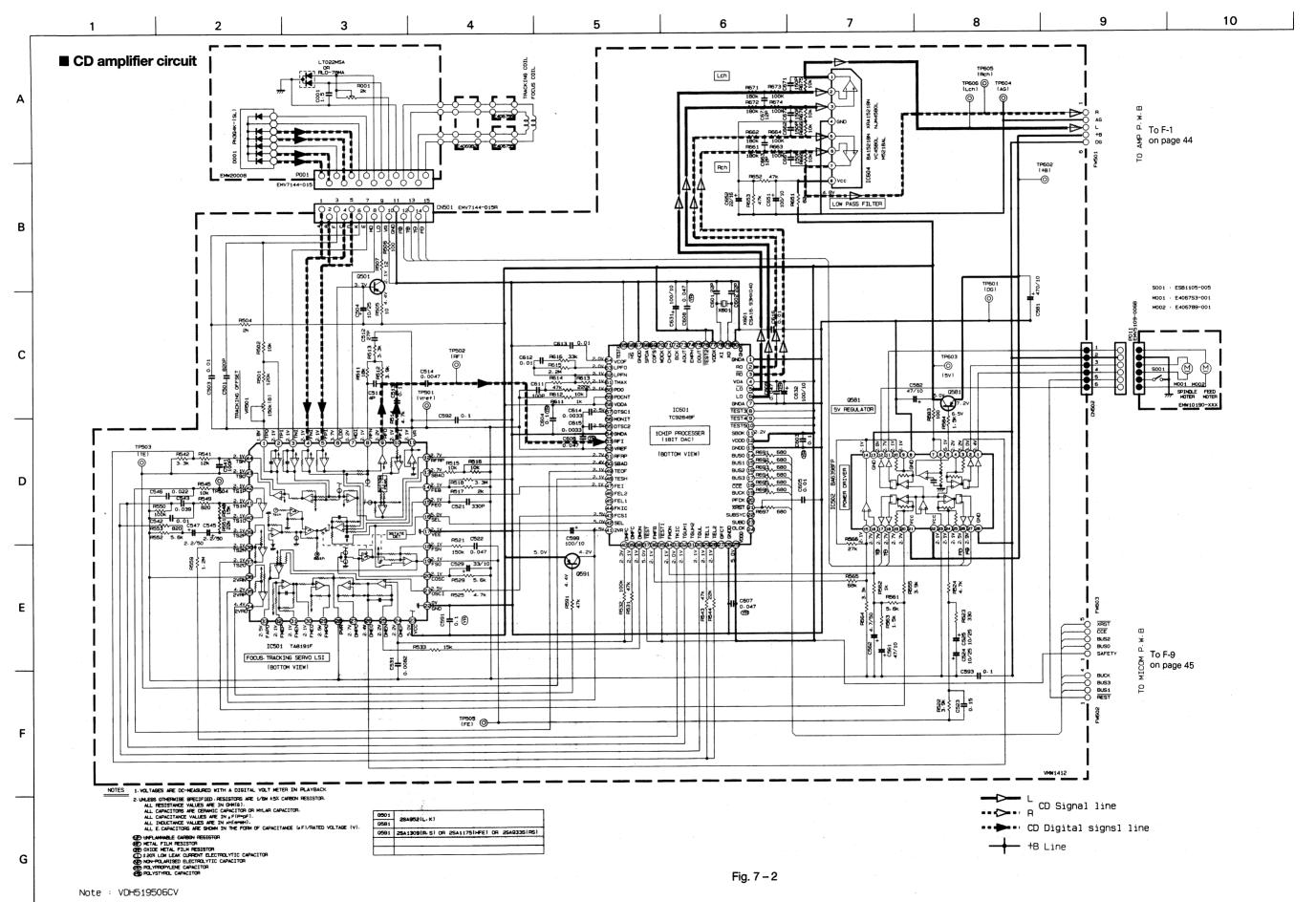


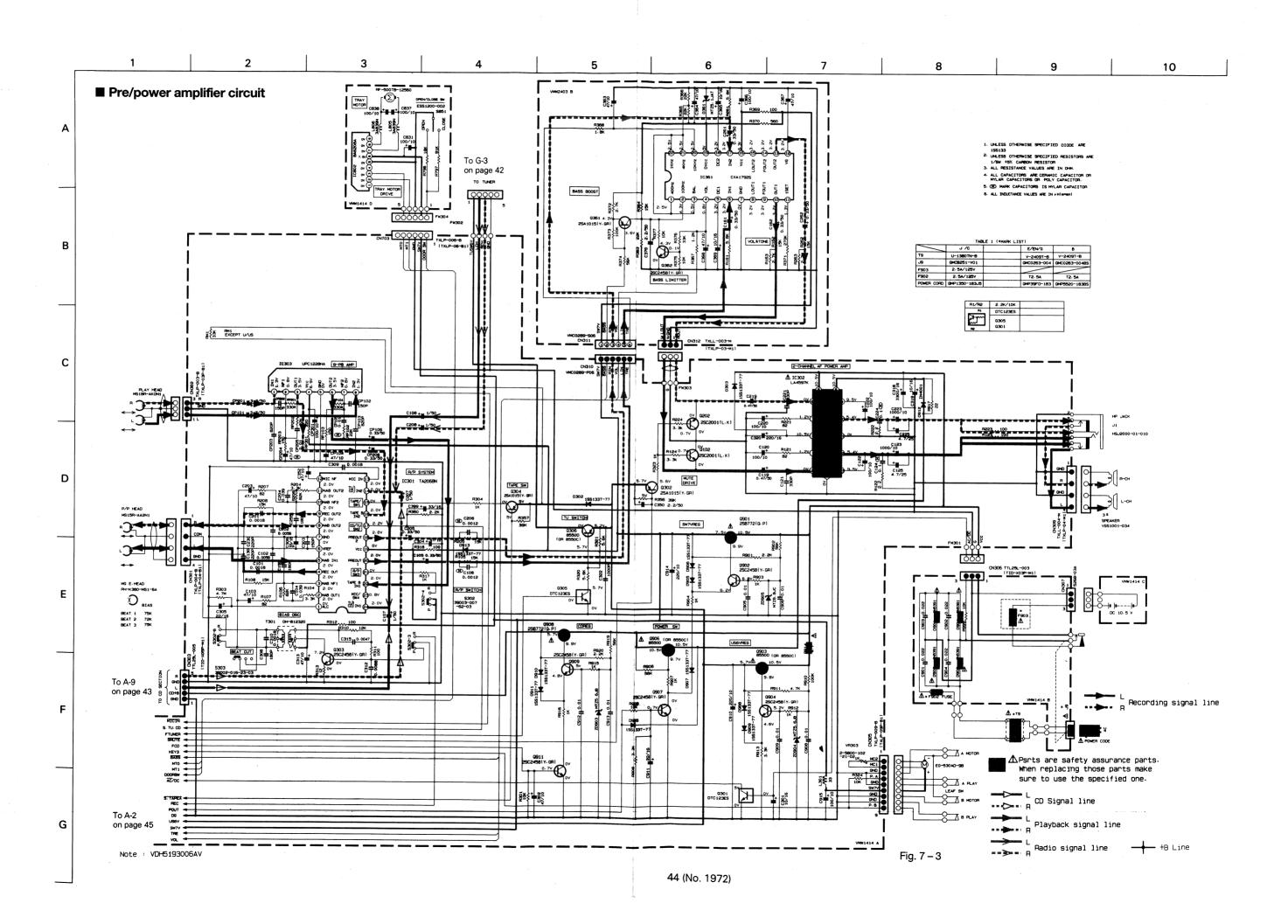


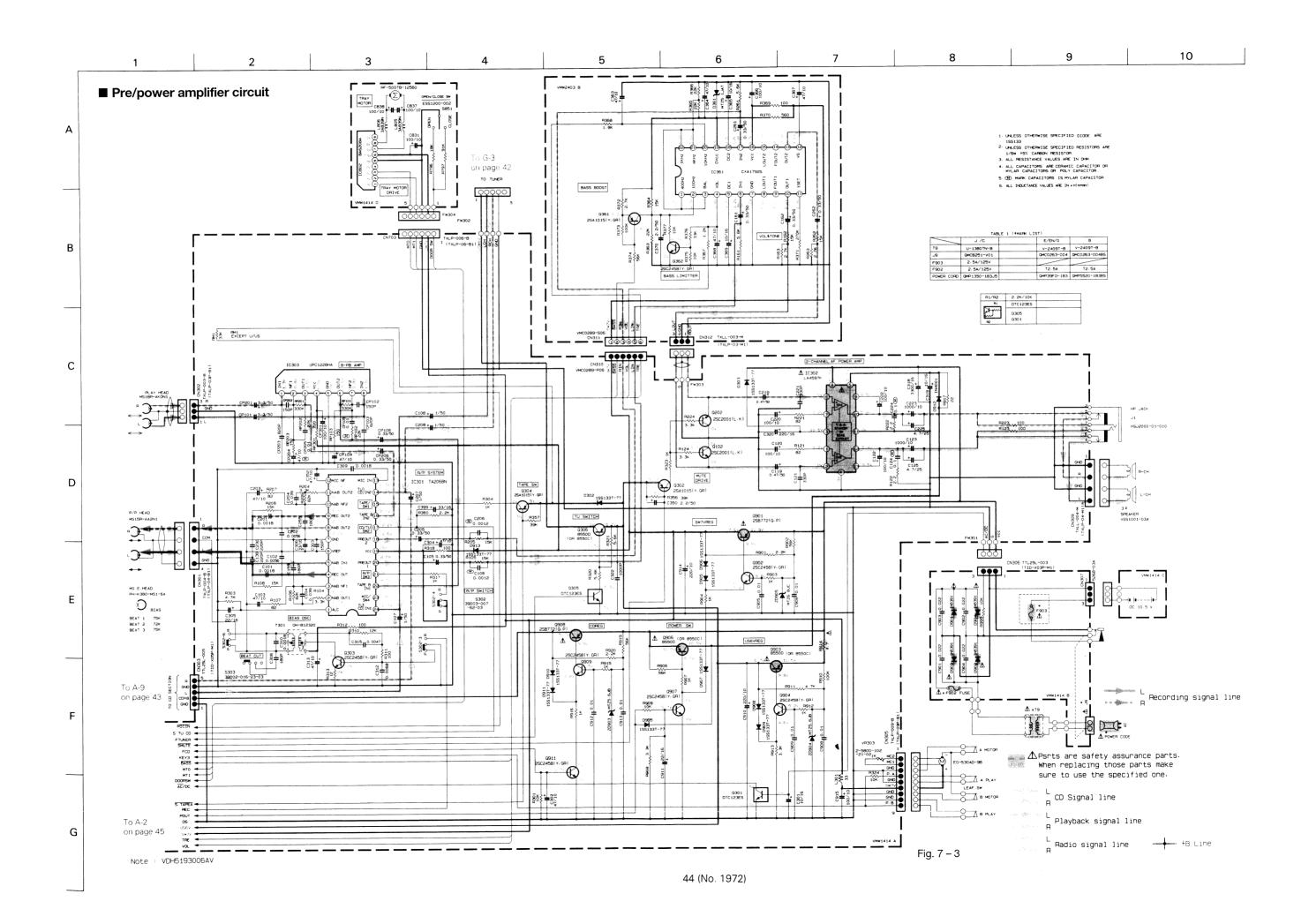


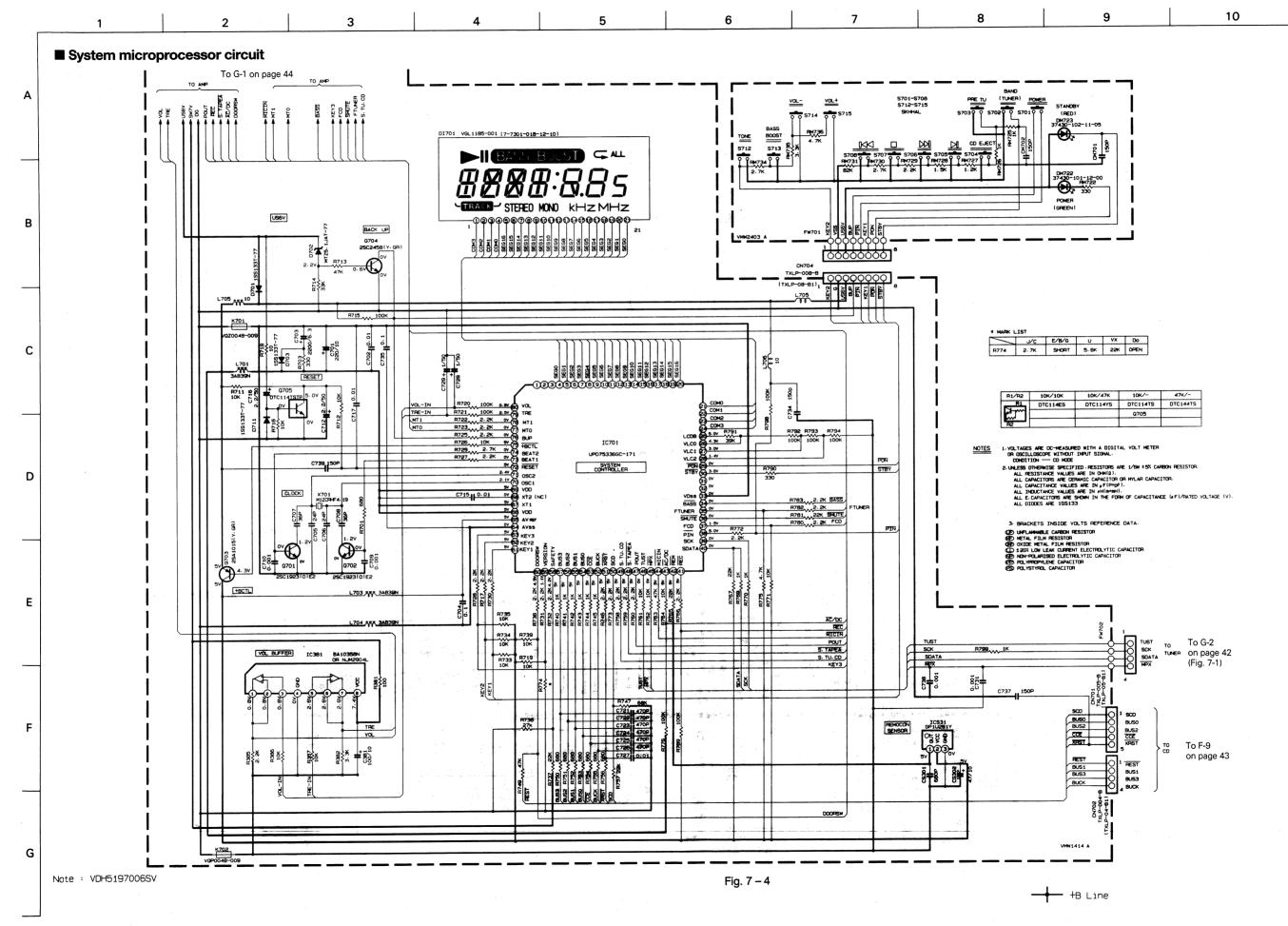
7. Standard Schematic Diagram



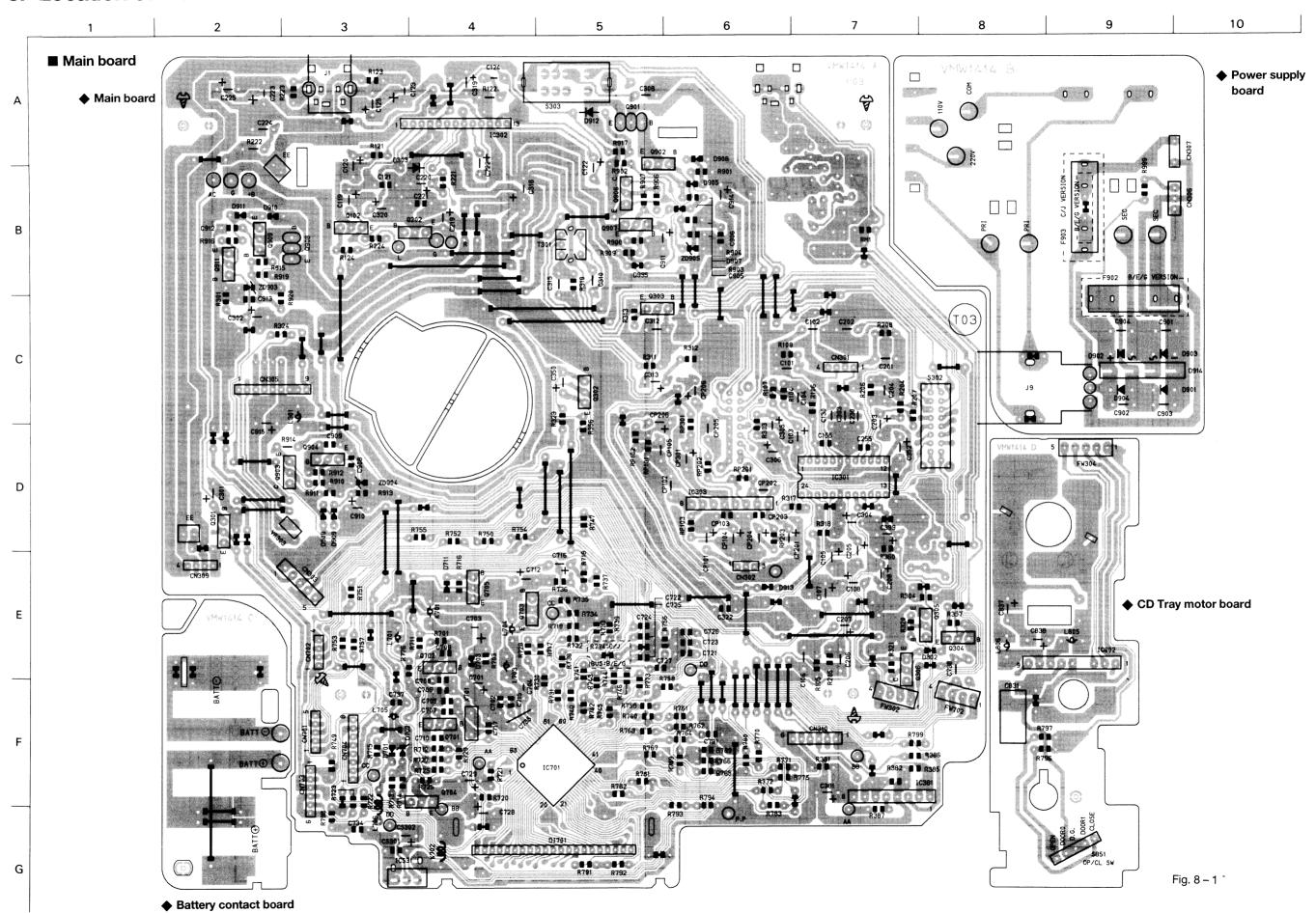






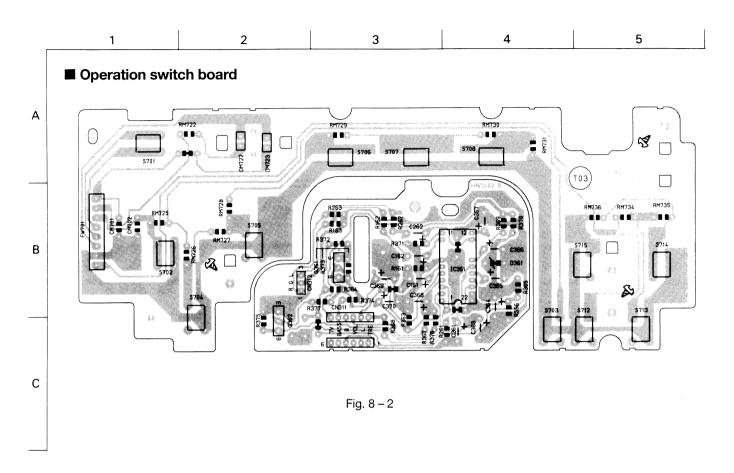


8. Location of P.C. Board Parts and Parts List



SUFFIX

BLOCK NO. DHILLIII PARTS NO. PARTS NAME REMARKS REMARKS	_				·	 	 	 	
BLOCK 2 GRBON RESISTOR 22K 5% 176W 3 GRD141J-223 CARBON RESISTOR 22K 5% 176W 3 GRD141J-221 CARBON RESISTOR 22C 5% 176W 3 GRD141J-221 CARBON RESISTOR 22C 5% 176W 3 FS23E01-69 SWITCH 1 OH-81320 SWITCH 1 OH-81320 SWITCH 1 OH-81320 SWITCH 2 CERA LOCK MIZCHF4.19 CERR DIODE 4 MIZSJB 7 ZENER DIODE 5 MIZSJB 7 ZENER DIODE 5 MIZSSBUC 7 ZENER DIODE 7 MIZCH-100 7 ZENER DIODE	F 1								
PARTS NO. PARTS NAME QRP161J-223 CARBON RESISTO QRD161J-223 CARBON RESISTO QRD161J-221 CARBON RESISTO PS-62D13-S SUITCH SS K-22E01-69 SUITCH SS K-22E01-69 SUITCH SS K-22E01-69 SUITCH OH-8123C0 SIDE SWITCH OH-8123C0 SIDE OH-8123C0	BLOCK	5% 1/ 5% 1/ 5% 1/ 5% 1/ 52D13-							
PARTS NO. 2 QRD161J-223 3 QRD161J-223 3 QRD161J-221 2 PS-62D13-8 3 SK-62D13-8 3 SK-62D13-8 3 GK-62D13-8 3 GK-62D13-8 3 GK-62D13-8 3 GK-62D13-8 3 GK-62D13-8 3 GK-62D13-8 5 MTZ6-61-69 5 MTZ6-61-61-61-61-61-61-61-61-61-61-61-61-61	ARTS N	ARBON RESISTO ARBON RESISTO ARBON RESISTO USH SWITCH LIDE SWITCH	WITCH IAS OSC COIL EMI.V.RESISTO ERA LOCK ENER DIODE						
	ARTS N	161J-22 161J-15 161J-22 52D13-8	1200-002 312320 4603-102AZ CRHF4.19 5.6JB						
A A A A A A A A A A A A A A A A A A A	~	30000	30 30 30 90	06					



Operation switch board parts list

SUFFIX																																																											
REMARKS	3MF 20%	.33MF 20% 50V	33MF 20%	MF 20%	7MF 20%	20% TMO	7MF 20%	7MF 20%	OMF 20%	2MF 20%	50PF 10%	50PF 10%	WB CN	Y.						4K 5% 11	7. 2. 3. 3. 3. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5.	7K 5% 1/6	.6K 5% 1/	5K 5% 1/6W	.7K 5% 1/	2K 5% 1/6	5K 5% 1/6	2K 5% 1/6	2K 5% 1/6W	.2K 5% 1/	.8K 5% 1/6	00 5% 1/6	00 0% 1/0W	7K 5% 1/	00K 5% 1/6	6K 5% 1/6W	OK 5% 1/6	3K 5% 1/6	OK 5% 1/6	30 5% 1/6W	01 58 1/0	.UN 34 1/	5K 5% 1/6	2K 5% 1/6	.7K 5% 1/6	5% 1/6W	.7K 5% 1/	.3K 5% 1/6	.7K 5% 1/6										
PARTS NAME	. CAPACITO	APACITOR	CAPACITOR	CAPACITOR	. CAPACITOR	CAPACITOR	CAPACI OR	CAPACITOR	CAPACITOR	CAPACITOR	CAPACITOR	CAPACITOR	DNNECTOR	DNNECTOR	ENER DIODE	ED GREE	ED RE		RANSISIO	APRON PECTOTOP	ARRON RESISTOR	ARBON RESISTOR	ARBON RESISTOR	ARBON RESISTOR	ARBON RESISTOR	ARBON RESISTOR	ARBON RESISTOR	ARBON RESISTOR	ARBON RESISTOR	ARBON RESISTOR	ARBON RESISTOR	ARBON RESISTOR	AKBON KESISIUK	ARBON RESISTOR	ARBON RESISTOE	AKBON KESISIOK	ARBON RESISION	ARRON RESISTOR	ARBON RESISTOR	ACT SWITC) T M O T O K	ACT SWIT	ACT SWITC	ACT SWITC															
PARTS NO.	ETC1HM-334		ETC1HM-334 ETC1HM-334	ET41AM-476	EK41AM-47	EK41CM-10	F	77-WY1713	0 - W - T 7 L Z	FTC1HM-225	CBB1HK-151Y	CBB1HK-151	MC0289-S06	XLL-003-M	TZ5.1JAT-7	7430-10	7430-101-12-0	XA1792S	SAIOISCY	3024301179A	RD1611-15	RD161.1-27	RD167J-56	RD161J-15	RD161J-27	RD161J-22	RD161J-15	RD161J-22	RD161J-22	RD161J-12	RD161J-18	RD161J-10	KU161J-56 PN1411-27	RD161.1-27	RD161J-10	RD161J-56	RD161J-10	RD161J-33	RD161J-10	RD161J-33	KU161J-10	RD1613-10 RD1611-12	RD1611-15	RD161J-22	RD161J-27	RD161	RD161J-27	RD167J-33	RD161J-47		X	X	KHY	KHH	SKHHAL	F 2	H	X	XHH
A REF.	161	C 162	261	363	364	265	267	200	360	777	M701	M 7 0 2	N311	N312	361	M722	M723	C 361	561	141	1 6 7	163	261	262	263	363	364	365	366	367	368	369	377	372	373	374	375	376	377	M722	277E	M 7 2 7	M 7 2 B	M729	M730	M731	M734	M735	M736	107	703	704	202	206	707	100	713	714	715

2 3 5 ■ Tuner board Α TO ROD.ANT В C**5**6 С ■ C32 TP21FM GND1 D **T**¹18 Ε X B

Fig. 8 – 3

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● Tuner board parts list

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	SUFFIX																																														The second secon				
BLOCK NO. 03	REMARKS			100K 5% 1/6W	7K 5% 1/6W	₩9	5% 1/6	5% 1/6	н.	1.00 T 40 TO TO	1.0K 5% 1/6W	100	1007 JA 1708 188 JR 1765	22K 5% 1/6W	100 5% 1/6W	39K 5% 1/6W	39K 5% 1/6W	56 5% 1/6W	18K 5% 1/6W	18K 5% 1/6W	2.2K 5% 1/6W	10K 5% 1/6W	680 5% 1/6W	1.0K 5% 1/6W	4.7K 5% 1/6W	2.2K 5% 1/6W	2.2K 5% 1/6W	3.37.36 1/0W	1.00 34 1/0W	, v	. OK 5% 1	5% 1/																			
	PARTS NAME	OSC COIL(MW)	INDUCTOR	FSISTOR	RESISTOR	RESISTOR	RESISTOR	RESISTOR	RESISTOR	20101010	RESISTOR	DESTATOR	RESISTOR	RESISTOR	RESISTOR	RESISTOR	RESISTOR	RESISTOR	RESISTOR	RESISTOR	RESISTOR	RESISTOR	RESISTOR	RESISTOR	RESISTOR	RESISTOR	RESISTOR	PESTOLOR	PESTSTOR	RESISTOR	RESISTOR	RESISTOR		T CAPACITOR	PIN SOCKET	z	CRYSTAL														_
	PARTS NO.	V@M7U02-40	V@P0018-221	QRD161.1-	QRD161J-473	I	QRD161J-104	QRD161J-102	S QRD161J-104	00011010105	0 WKD161J-102	0001411-107	0RD161.1-183	QRD161J-223	5 QRD161J-101	GRD161J-393	5 QRD161J-393	QRD161J-560	3 QRD161J-183	QRD161J-183	4 QRD161J-222	S QRD161J-103	QRD161J-681	3 QRD161J-102	9 QRD161J-472	4 QRD161J-222	0 0 0 0 1 6 1 1 - 2 2 2	0 WRU10/J-552	0 0801411-102	0 0RD1611-102	QRD161J-102	4 QRD161J-102	VQT	QAT311	VMZO	VMZ0015	VCX5044														
	A REF.					R																								٠ <			T 2	ပ	Δ.	۵															_
0 3	SUFFIX																																																		
BLOCK NO. [0	REMARKS	ı	MF 30% 1	20PF 5% 50V	2PF	.022MF 20% 25V	010	.04/MF 20% 25V	120F 5% 100V	10000E 10% 50V	010MF 40% 16V	100MF 20% 10V	.010MF 30% 16V	4 7MF 20% 50V	1000PF 10% 50V	1.0MF 20% 50V	10MF 20% 16V	.047MF 20% 25V	.010MF 30% 16V	.10MF 20% 50V	.47MF 20% 50V	6800PF 5% 50V	6800PF 5% 50V	.10MF 20% 50V	.10MF 20% 50V	330PF 10% 50V	1000PF 10% 50V	10001 100 300	100MF 20% 10V	12PF 5% 50V	1000PF 10% 50V	12PF 5% 50V	1000PF 10% 50V	2200PF 20% 16V	2.2MF 20% 50V	3.3MF 20% 50V	1000PF 10% 50V														
	ARTS NAME	BAND PASS FILTE	CAPACITOR	C.CAPACITOR	C.CAPACITOR	C.CAPACITOR	C.CAPACITOR	C.CAPACIOR											-								C.CAPACITOR				C.CAPACITOR	C.CAPACITOR	C.CAPACITOR	C.CAPACITOR		E.CAPACITOR	C.CAPACITOR	C 711 - 17 7	CERA LOCK	CONNECTOR	CONNECTOR	_	L VARI CA	60	2 '	VAKI CAP	VIOVE) C	S	u	4711
	RTS	1 VBP4M3B-007Z	OCVR1CN-10	7 QCS11HJ-200	9 QCS11HJ-120	3 QCC11EM-223V	S QCVB1CN-103Y	1 QCC11EM-4/3V	K G F G D C A J = 4 D I L N	00 BB1 HK - 100 V	ACDBIAN-1021	S 0FT41AM-107	5 QCVB1CN-103Y	S QET41HM-475	7 QCBB1HK-102Y	O GET41HM-105	1 QET41CM-106	2 QCC11EM-473V	3 QCVB1CN-103Y	4 QETC1HM-104Z	5 QET41HM-474	7 QFN41HJ-682	8 QFN41HJ-682	9 QETC1HM-1042	O GETC1HM-104Z	1 QCBB1HK-331Y	2 QCBB1HK-102Y	0 &C 414K 102	1 0FT41AM-107	2 0CT30CH-120Y	3 QCBB1HK-102Y	4 QCT30CH-120Y	5 QCBB1HK-102Y	9 QCXB1CM-222Y	O GETC1HM-225ZM	1 QETC1HM-3352		VCF2M3B-10		TXLP-005-B	TXLP-004-B	SVC2038	0,			2 (+	3 LC72136		2 VQC1505-002	
	A REF.	BP 1				c 13				1					1				- 1					- 1			25 0		- 1						02 0		C 22									-	7	10			

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■ CD amplifier board

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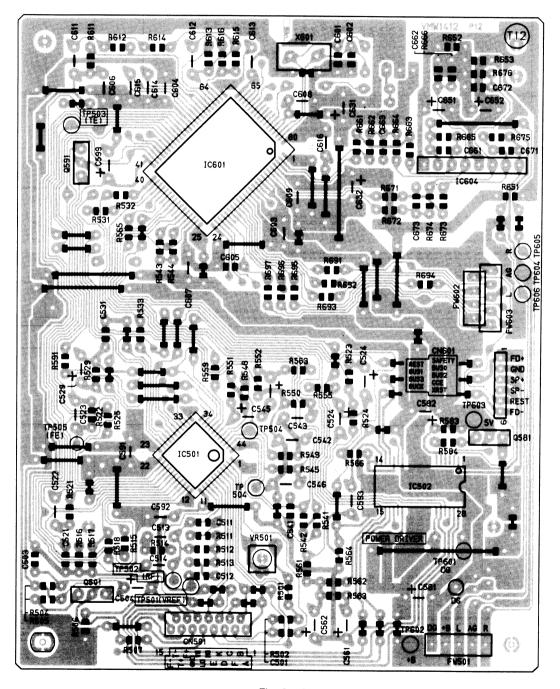


Fig. 8 – 4

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Main board parts list

SUFFIX																																																			
BLOCK NO. 011 REMARKS	OTOME 20	OMF 20% 6	10MF 5% 50	4PF 5% 5	4PF 5% 50	36PF 5% 50V	6PF 5% 50V	000PF 10% 5	2MF 20%	010MF 20%	.2MF 20% 5	010MF 20%	70PF 10% 5	70PF 10% 5	70PF 10% 5	70PF 10% 5	70PF 10% 5	70PF 10% 5	010MF 20%	.OMF 20% 5	.OMF 20% 5	000PF 10%	50PF 10%	10MF 20% 2		000PF 10%	30FF 106	00MF 20% 1	00MF 20% 1	022MF 20%	.022MF 20% 25V	022MF 20%	20%	010MF 20%	010MF 20% 1	010MF 20% 16	010MF 20% 16	147	010MF 20%	010MF 20% 16	20MF 20% 10V	100MF 20% 10V	01	3 HEAD		DOUBLE C MECHA			ш	١.	ے در
PARTS NAME	CAPACITO	APACIT	F CAPACITOR	.CAPACITOR	.CAPACITOR	CAPACITOR	CAPACITOR	CAPACITOR	CAPACITOR	CAPACITOR	CAPACITOR	. CAPACITOR	. CAPACITOR	. CAPACITOR	. CAPACITOR	.CAPACITOR	.CAPACITOR	.CAPACITOR	.CAPACITOR	. CAPACITOR	.CAPACITOR	CAPACITOR	CAPACITOR	.CAPACITOR	CAPACITOR	CAPACITOR	CAPACITOR	CAPACITOR	. CAPACITOR	.CAPACITO	CAPACIT	.CAPACITO	.CAPACITO	CAPACITO	CAPACITO	CAPACI O	CAPACIO	CAPACITO	TIDATA	CAPACITO	CAPACITO	.CAPACITO	ONNECTOR	ONNECTOR	ONNECTOR	ONNECTOR	ONNECTOR	ONNECTOR	NNECTOR		ONNECTOR
PARTS NO.	CVR1CM-10	Σ O O	FV41HJ-10	CS11HJ-24	CS11HJ-24	CS11HJ-36	CS11HJ-560	CBBIHK-10	225	CVB1CM-103Y	ETC1HM-225	CVB1CM-103	CBB1HK-471	CBB1HK-471	CBB1HK-471	CBB1HK-4	CBB1HK-471	CBB1HK-471	CVB1CM-10	ET41HM-10	ET41HM-105	CBB1HK-10	CBB1HK-151	CC11EM-10	CBB1HK-	CY41HK-10	CBB1HK-13	FT41AM-10	ET41AM-10	CC11EM-223	CC11EM-22	CC11EM-22	CC11EM-2	CVB1CM-10	CVB1CM-10	CVB1CM-10	CVBICM-10	ET 4.1 CM - 2.2	CVR1CM-1	CVB1CM-103	FT41AM-227	ET41AM-10	XLP-004-	XLP-003-	TL25L-0	XLP-009-	TL25L-00	8-03A	XLL-004-M	X1 P-0051	LP-004
REF.	7.0	C 703	70	70	2	70	2 6	2 ,	71	71	71	71	72	72	72	72	72	72	72	72	72	73	5,	73	73	7.0) K	2 6	83	90	06	90	8	> 0	9 6	> 0	2 5	0	, 6	. 6	. 6	91	N30	N30	N30	N 30	N 30	N 50	N 50	1 0	. Z

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BLOCK NO. 01		1800PF 5% 50V	0 % 0 1 1 M V	0.4 O.M.F. 5.% 5	33MF 20% 5	SOUDE SW S	OMF 20% 5	OMF 20% 3	47MF 20% 5	2	30PF 10% 5	00MF 20% 1	000MF 20%	10MF 5% 50	.7MF 20%	20PF 5% 5	80PF 10%	800PF 5%	600PF 5%	7MF 20% 1	039MF 5%	33MF 20%	200PF 5%	.OMF 20%	.OMF 20%	47MF 2	00MF 20%	30PF 10%	00MF 20%	000MF 20%	10MF 5% 5	.7MF 20%	220PF 5% 50V	OMF 20% 1	7MF 20% 1	50PF 5% 5	7MF 20% 1	2MF 20% 1	3MF 20% 1	80PF 5% 5	800PF 5%	800PF 5%	800PF 5%	7MF 20% 1	700PF 5%	300MF 20%	OMF 20% 16V	20MF 20% 1	000PF 10% 5	.2MF 20% 5	7MF 20% 10	00MF 20% 1	220MF 20% 10V
PARTS NAME		M.CAPACITOR	O TOVALO	ACA C MIT	CAPACITOR	CAPACITO	CAPACITO	CAPACITO	CAPACITO	. CAPACI	. CAPACITO	. CAPACIT	.CAPACITO	ILM CAPAC	.CAPACITO	. CAPACITO	.CAPACITO	.CAPACITO	.CAPACITO	.CAPACITO	ILM CAPAC	.CAPACITO	.CAPACITO	.CAPACITO	. CAPACITO	.CAPACITO	.CAPACITO	. CAPACITO	. CAPACITO	. CAPACITOR	ILM CAPAC	.CAPACITO	CAPACI	CAPACITO	CAPACITO	CAPACITO.	. CAPACITO	. CAPACITO	.CAPACITO	.CAPACITO	.CAPACITO	. CAPACIT	CAPACITO	.CAPACITO	CAPACITO	.CAPACITO	.CAPACITO	.CAPACITO	. CAPACITO	.CAPACITO	.CAPACITO	CAPACIO	E.CAPACITOR
PARTS NO.		QFN41HJ-182	T T T T WE T T	FV41H1-494	ETC1HM-334Z	1-DADTCR/R	FT41HM-105	FT41HM-10	FT41HM-47	ET41AM	CBB1HK-33	ET41AM-10	ET41AM-10	FV41HJ-10	ER41EM-475V	CS11HJ-221	CBB1HK-18	FN41HJ-18	FN81HJ-56	ET41AM-47	FV41HJ-39	ETC1HM-334	1-PARTS848	ET41HM-10	ET41HM-10	ET41HM-4	ET41AM-10	CBB1HK-33	ET41AM-10	ET41AM-108	FV41HJ-10	ER41EM-475	QCS11HJ-221	CDDINK-101	FT41AM-47	CS11HJ-15	ET41AM-4	ET41CM-22	E141CM-33	CS11HJ-18	FN41HJ-18	FN41HJ-1	FN41HJ-68	ET41AM-47	FN41HJ-472	ETB1CM-33	ET41CM-10	ET41CM-227	CBB1HK-102Y	ETC1HM-22	ET41AM-4	E 1 4 1 AM - 10	QE141CM-338
REF.		10	, -	1 -	10	100	10	10	1	12	12	12	12	12	12	13	15	20	20	20	20	20	20	50	20	21	25	22	22	22	22	22	2 0	7 6	300	30	30	30	30	30	30	31	31	31	31	31	31	32	32	M 1	9 0	0 0	C 701
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	SUFFIX											
BLOCK NO. 01	REMARKS					3.3K 5k 1/6w	15K 5% 1/6W 82K 5% 1/6W 82 5% 1/6W 15K 5% 1/6W 82 5% 1/6W	2.2 5% 1/6W 100 5% 1/6W 3.3K 5% 1/6W 3.3K 5% 1/6W 15K 5% 1/6W	82K 5% 1/6W 82 5% 1/6W 15K 5% 1/6W 82 5% 1/6W 2.2 5% 1/6W	100 5% 1/6% 3.3K 5% 1/6% 10K 5% 1/6% 4.7M 5% 1/6% 1.0K 5% 1/6%	12K 5% 1/6W 100 5% 1/6W 100 5% 1/6W 12 5% 1/6W 1.0K 5% 1/6W	100 5% 1/6W 5.6K 5% 1/6W 5.6K 5% 1/6W 1.0K 5% 1/6W 10K 5% 1/6W
	PARTS NAME	INDUCTOR INDUCTOR TRANSISTO		TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR		TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR CARBON RESISTOR	RESISTOR RESISTOR RESISTOR RESISTOR RESISTOR	RESISTOR RESISTOR RESISTOR RESISTOR RESISTOR	RESISTOR RESISTOR RESISTOR RESISTOR RESISTOR	RESISTOR RESISTOR RESISTOR RESISTOR	RESISTOR RESISTOR RESISTOR RESISTOR RESISTOR	CARBON RESISTOR CARBON RESISTOR CARBON RESISTOR CARBON RESISTOR
	A REF. PARTS NO.	805 806 102 202	302	Q 306 8550C Q 701 25C1923 Q 702 25C1923 Q 703 25A1015(Y,GR) Q 704 25C2458(Y,GR) Q 705 17C114/15C1	901 902 903 904	907 908 909 911	105 QRD16 106 QRD16 107 QRD16 108 QRD16 121 QRD16	122 123 124 204 205	206 QRD161. 207 QRD161. 208 QRD161. 221 QRD161. 222 QRD161.		310 311 312 312 313	R 320 @RD161J-101 R 320 @RD167J-562 R 321 @RD167J-562 R 323 @RD161J-102 R 324 @RD161J-103
1111111	SUFFIX											
BLOCK NO. 01111111	ARKS SUFFI	CD TRAY SWITCH PCB 3.3MF 20% 25V 13.5MF 20% 25V		150PF 5% 50V 820PF 10% 50V 47MF 20% 10V .010MF 5% 50V .33MF 20% 50V 100MF 20% 10V	680PF 10% 50V 47MF 20% 10V				РВАМР	EVR BUFF ICC=N2	L301=B99 MOTOR	
OCK NO.	ARKS SUFFI	1 m 7 v 7	CAPACITOR CAMESON OCCUPATION CAPACITOR 33MF 20% CAPACITOR 3.3MF 20% CAPACITOR 3.3MF 20% CAPACITOR 3.3MF 20%	150PF 5% 820PF 10% 47MF 20% 1	ACITOR 680PF 10% ACITOR 47MF 20% 1 100E 100E	ZENER DIODE SI DIODE SI DIODE DIODE	DIODE DIODE SI DIODE SI DIODE	SI DIODE SI DIODE SI DIODE SI DIODE DIODE	ODE ON SENSOR	IC IC EVR BUFF I IC IC	JACK L301=B99 M	INDUCTOR INDUCTOR INDUCTOR
OCK NO.	PARTS NO. PARTS NAME REMARKS SUFFI	CD TRAY SWITCH PCB S.3MF 20% R 150PF 5% 5	### CAPACITOR	C.CAPACITOR 150PF 15% C.CAPACITOR 820PF 10% E.CAPACITOR 47MF 20% M.CAPACITOR .33MF 20% E.CAPACITOR 10MF 20%	QCBB1HK-681Y C.CAPACITOR 680PF 10% QET41AM-476 E.CAPACITOR 47MF 20% 1 15133 SI DIODE	MTZS.1JAT-77 1SS133 1SS133 INS391 INS391	IN5391 DIC IN5391 DIC IN53133 SI 158133 SI 158133 SI	155133 155133 155133 1155133 1144001 1144001 1144001	155155 51 DIODE 155133 SI DIODE VGL1185-001 LCD GP1U2817 REMOCON SENSOR TAZO68N IC	IC EVR BUFF I	HSJ2000-01-010 HEADPHONE JACK QMC0263-004BS AC SOCKET VQ20048-009 INDUCTOR VQ20048-009 INDUCTOR VQP0028-3302 INDUCTOR INDUCTOR INDUCTOR	N N 118-100 18-100

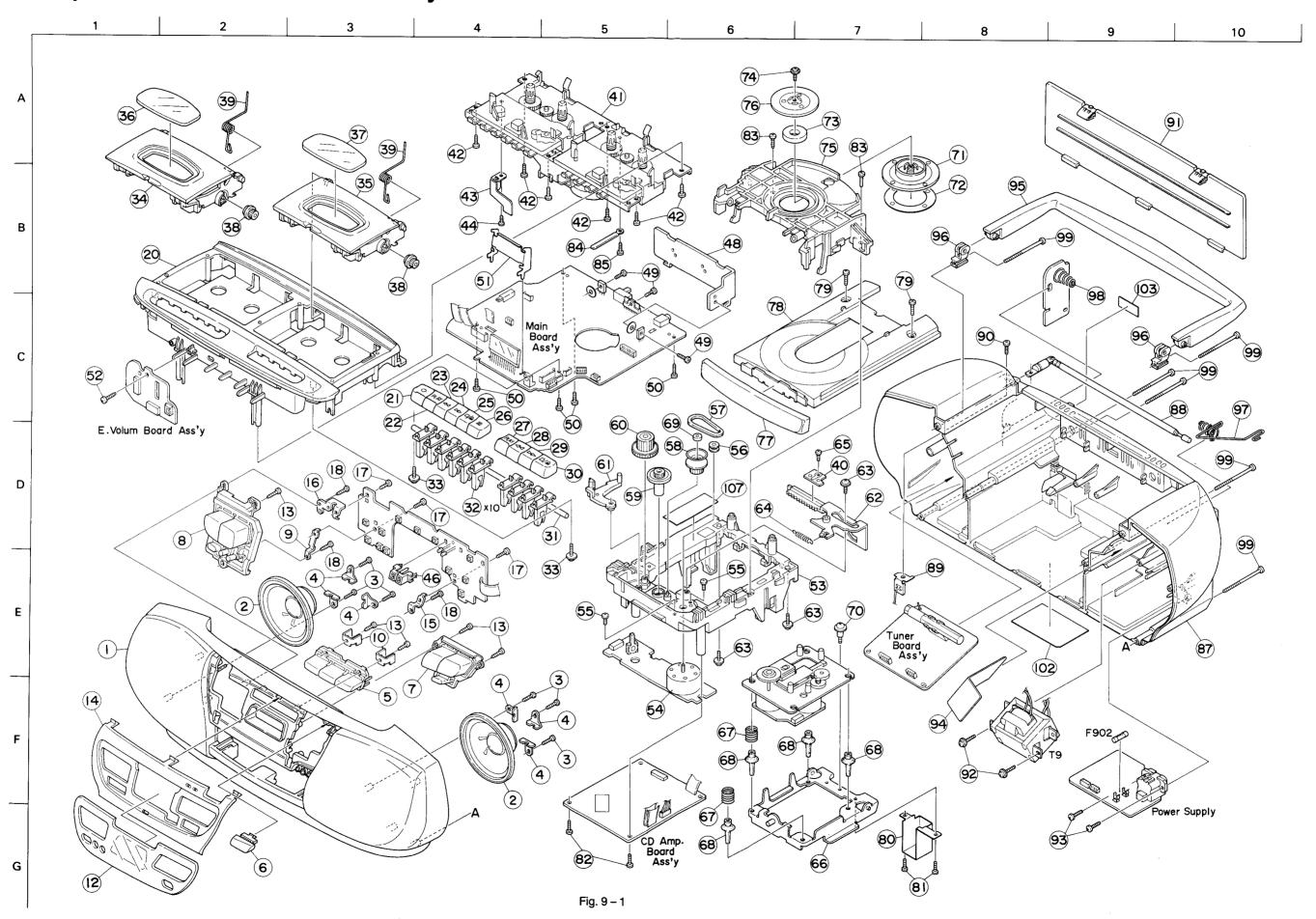
● CD amplifier board parts list

5501 QCB 5503 QCV 5504 QEK 5511 QCS 5513 QCS 5514 QCS 5514 QCB 5521 QCB 5522 QCB 5523 QCB	B1H			
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308 FP IC CARDIN RESISTOR LOW SX 1/6W ICLI-120 CARDIN RESISTOR LOW SX 1/6W ICLI-202 CARDIN RESISTOR LOW SX 1/6W ICLI-303 CARDIN RESISTOR LOW SX 1/6W ICLI-304 C	7. 1.		ON STANG	PARTS NAME	BLOCK NO. 04	CHERTY
25.2 (L.K.) TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TO CARBON RESISTOR 120K 5% 1/6W 51J-103 CARBON RESISTOR 100 5% 1/6W 51J-100 CARBON RESISTOR 18K 5% 1/6W 51J-103 CARBON RESISTOR 18K 5% 1/6W 51J-103 CARBON RESISTOR 1.2 5% 1/6W 51J-103 CARBON RESISTOR 1.2 5% 1/6W 51J-103 CARBON RESISTOR 1.2 5% 1/6W 51J-103 CARBON RESISTOR 1.0 5% 1/6W 61J-103 CARBON RE		ľ	0100	TAN STAN	TO IM IN IN IN	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
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11.1-202 CARBON RESISTOR 10.5% 1/6W CARBON RESISTOR 10.5% 1/6W S11120 CARBON RESISTOR 10.5% 1/6W S11120 CARBON RESISTOR 110.5% 1/6W S11120 CARBON RESISTOR 12.5% 1/6W S11120 CARBON RESISTOR 12.5% 1/6W S11120 CARBON RESISTOR 13.9% 5% 1/6W S11103 CARBON RESISTOR 10.5% 1/6W S11103 CARBON RESISTOR 10.5% 1/6W S11103 CARBON RESISTOR 10.5% 1/6W S11120 CARBON RESISTOR 10.5% 1/6W S11120 CARBON RESISTOR 15.0M 5% 1/6W S11123 CARBON RESISTOR 12. % 5% 1/6W S11123 CARBON RESISTOR 13. % 5% 1/6W S11123 CARBON RESISTOR 15. % 5% 1/6W S11123 CARBON RESISTOR 12. % 5% 1/6W CALL-123 CARBON R	202	Œ	511-10	ARBON RESISTO	10K 5% 1/6W	
511-100 CARBON RESISTOR 10 5% 1/6W 511-101 CARBON RESISTOR 100 5% 1/6W 511-102 CARBON RESISTOR 100 5% 1/6W 511-132 CARBON RESISTOR 18K 5% 1/6K 511-103 CARBON RESISTOR 1.0K 5% 1/6K 511-104 CARBON RESISTOR 1.0K 5% 1/6K 511-105 CARBON RESISTOR 1.0K 5% 1/6K 511-105 CARBON RESISTOR 1.0K 5% 1/6K 511-104 CARBON RESISTOR 1.0K 5% 1/6K 511-103 CARBON RESISTOR 1.0K 5% 1/6K 511-104 CARBON RESISTOR 1.0K 5% 1/6K 511-105 CARBON RESISTOR 1.0K 5% 1/6K 511-104 CARBON RESISTOR 1.0K 5% 1/6K 511-105 CARBON R	204	ø	511-20	ARBON RESISTO	2.0K 5% 1/6	
11.1-101 CARBON RESISTOR 100 5% 1/6W CARBON RESISTOR 120 5% 1/6W CARBON RESISTOR 130 5% 1/6W CARBON RESISTOR 120 5% 1/6W CALL-132 CARBON RESISTOR 120	505	ø	511-10	ARBON RESISTO	10 5% 1/6	
511-120 CARBON RESISTOR 12 5% 1/6W CARBON RESISTOR 3.9K 5% 1/6W CARBON RESISTOR 3.9K 5% 1/6W CARBON RESISTOR 3.9K 5% 1/6W CARBON RESISTOR 3.5K 5% 1/6W CARBON RESISTOR 10K 5% 1/6W CARBON RESISTOR 3.3M 5% 1/6W CARBON RESISTOR 3.5M 5% 1/6W CARBON RESISTOR 3.5M 5% 1/6W CARBON RESISTOR 3.5M 5% 1/6W CARBON RESISTOR 4.7K 5% 1/6W CARBON RESISTOR 100K 5% 1/6W CARBON RESISTOR 1.5K 5% 1/6W CALJ-102 CARBON RESISTOR 1.5K 5% 1/6W	206	ø	51J-10	ARBON RESISTO	9/1 %5 001	
\$1J-183	202	G	511-15	ARBON RESISTO	12 5% 1/6W	
\$1.0-392	511	Ø	511-18	ARBON RESISTO	18K 5% 1/6	
\$5.13.2 CARBON RESISTOR 3.3K 5% 1/6% CARBON RESISTOR 4.7K 5% 1/6% 5.1.1-472 CARBON RESISTOR 10K 5% 1/6% 5.1.1-203 CARBON RESISTOR 10K 5% 1/6% 5.1.1-203 CARBON RESISTOR 10K 5% 1/6% 5.1.1-33.2 CARBON RESISTOR 3.3M 5% 1/6% 5.1.1-33.2 CARBON RESISTOR 3.3M 5% 1/6% 5.1.1-472 CARBON RESISTOR 3.3M 5% 1/6% 5.1.1-472 CARBON RESISTOR 4.7K 5% 1/6% 5.1.1-472 CARBON RESISTOR 4.7K 5% 1/6% 5.1.1-472 CARBON RESISTOR 4.7K 5% 1/6% 5.1.1-123 CARBON RESISTOR 10K 5% 1/6% 5.1.1-103 CARBON RESISTOR 10K 5% 1/6% 5.1.1-102 CARBON RESISTOR 10K 5% 1/6% 5.1.1-102 CARBON RESISTOR 1.2M 5% 1/6% 5.1	512	Ø	511-39	ARBON RESISTO	3.9K 5% 1/6	
\$13-472 CARBON RESISTOR 4.7K 5% 1/6W 55.1-103 CARBON RESISTOR 10K 5% 1/6W 51.1-103 CARBON RESISTOR 10K 5% 1/6W 51.1-202 CARBON RESISTOR 10K 5% 1/6W 51.1-202 CARBON RESISTOR 1.5K 5% 1/6W 51.1-33.1 CARBON RESISTOR 1.5K 5% 1/6W 51.1-472 CARBON RESISTOR 1.5K 5% 1/6W 51.1-472 CARBON RESISTOR 1.7K 5% 1/6W 51.1-123 CARBON RESISTOR 1.7K 5% 1/6W 61.1-123 CARBON RESISTOR 1.7K 5% 1/6W 61.1-122 CARBON RESISTOR 1.7K 5% 1/	513	Ø	571-33	ARBON RESISTO	3.3K 5% 1/6	
511-103 CARBON RESISTOR 10K 5% 1/6W 5511-103 CARBON RESISTOR 1.0K 5% 1/6W 6511-103 CARBON RESISTOR 1.0K 5% 1/6W 6511-103 CARBON RESISTOR 3.3M 5% 1/6W 6511-154 CARBON RESISTOR 3.3M 5% 1/6W 6511-154 CARBON RESISTOR 3.9K 5% 1/6W 6511-472 CARBON RESISTOR 4.7K 5% 1/6W 6511-472 CARBON RESISTOR 5.6K 5% 1/6W 6511-104 CARBON RESISTOR 1.0K 5% 1/6W 6511-104 CARBON RESISTOR 1.0K 5% 1/6W 6511-103 CARBON RESISTOR 1.0K 5% 1/6W 6511-102 CARBON RESISTOR 1.0K 5% 1	514	Ø	513-47	ARBON RESISTO	4.7K 5% 1/6	
613-103 CARBON RESISTOR 10K 5% 1/6W 613-335YT CARBON RESISTOR 150K 5% 1/6K 613-1392 CARBON RESISTOR 150K 5% 1/6K 613-392 CARBON RESISTOR 150K 5% 1/6K 613-1392 CARBON RESISTOR 150K 5% 1/6K 613-472 CARBON RESISTOR 4.7K 5% 1/6K 613-104 CARBON RESISTOR 10K 5% 1/6K 613-105 CARBON RESISTOR 10K 5% 1/6K 613-153 CARBON RESISTOR 10K 5% 1/6K 613-153 CARBON RESISTOR 10K 5% 1/6K 613-153 CARBON RESISTOR 12K 5% 1/6K 613-223 CARBON RESISTOR 10K 5% 1/6K 613-623 CARBON RESISTOR 1.2M 5% 1/6K 613-633 CARBON RESISTOR 1.5K 5% 1/6K 613-633 CARBON RESISTOR	515	Ø	611-10	ARBON RESISTO	10K 5% 1/	
61J-202 CARBON RESISTOR 2.0K 5% 1/6% 61J-335 YT CARBON RESISTOR 150% 5% 1/6% 61J-472 CARBON RESISTOR 3.9K 5% 1/6% 61J-472 CARBON RESISTOR 4.7K 5% 1/6% 61J-472 CARBON RESISTOR 4.7K 5% 1/6% 61J-472 CARBON RESISTOR 4.7K 5% 1/6% 61J-103 CARBON RESISTOR 100K 5% 1/6% 61J-123 CARBON RESISTOR 100K 5% 1/6% 61J-123 CARBON RESISTOR 100K 5% 1/6% 61J-123 CARBON RESISTOR 100K 5% 1/6% 61J-103 CARBON RESISTOR 100K 5% 1/6% 61J-104 CARBON RESISTOR 100K 5% 1/6% 61J-105 CARBON RESISTOR 100K 5% 1/6% 61J-104 CARBON RESISTOR 100K 5% 1/6% 61J-623 CARBON RESISTOR 100K 5% 1/6% 61J-623 CARBON RESISTOR 100K 5% 1/6% 61J-102 CARBON RESISTOR 1.2M 5% 1/6% 61J-102 CARBON RESISTOR 1.5K 5% 1/6% 61J-102	516	Ø	611-10	ARBON RESISTO	10K 5% 1/	
61J-335YT CARBON RESISTOR 3.3M 5X 1/66 61J-154 CARBON RESISTOR 150K 5X 1/64 61J-332 CARBON RESISTOR 150K 5X 1/64 61J-472 CARBON RESISTOR 4.7K 5X 1/64 61J-472 CARBON RESISTOR 4.7K 5X 1/64 61J-472 CARBON RESISTOR 5.6K 5X 1/64 61J-104 CARBON RESISTOR 150K 5X 1/64 61J-104 CARBON RESISTOR 150K 5X 1/64 61J-123 CARBON RESISTOR 15K 5X 1/64 61J-103 CARBON RESISTOR 15K 5X 1/64 61J-102 CARBON RESISTOR 1.0K 5X 1/64 61J-102 CARBON RESISTOR 1.5K 5X 1/64 61J-102 CARBON RESIST	517	Ø	613-20	ARBON RESISTO	2.0K 5% 1/6	
613-154 CARBON RESISTOR 150K 5% 1/6 613-392 CARBON RESISTOR 150K 5% 1/6 613-472 CARBON RESISTOR 4.7K 5% 1/6 613-472 CARBON RESISTOR 4.7K 5% 1/6 613-472 CARBON RESISTOR 4.7K 5% 1/6 613-103 CARBON RESISTOR 100K 5% 1/6 613-1153 CARBON RESISTOR 100K 5% 1/6 613-123 CARBON RESISTOR 15K 5% 1/6 613-123 CARBON RESISTOR 12K 5% 1/6 613-123 CARBON RESISTOR 12K 5% 1/6 613-123 CARBON RESISTOR 100K 5% 1/6 613-103 CARBON RESISTOR 1.2M 5% 1/6 613-103 CARBON RESISTOR 1.5K 5%	518	G	61J-335Y	ARBON RESISTO	3.3M 5% 1/6	
611-392 CARBON RESISTOR 3.9K 5% 1/6% 611-331 CARBON RESISTOR 4.7K 5% 1/6% 611-472 CARBON RESISTOR 4.7K 5% 1/6% 611-472 CARBON RESISTOR 4.7K 5% 1/6% 611-473 CARBON RESISTOR 4.7K 5% 1/6% 611-123 CARBON RESISTOR 15K 5% 1/6% 611-123 CARBON RESISTOR 15K 5% 1/6% 611-223 CARBON RESISTOR 15K 5% 1/6% 611-223 CARBON RESISTOR 15K 5% 1/6% 611-103 CARBON RESISTOR 15K 5% 1/6% 611-123 CARBON RESISTOR 10K 5% 1/6% 611-123 CARBON RESISTOR 10K 5% 1/6% 611-123 CARBON RESISTOR 10K 5% 1/6% 611-152 CARBON RESISTOR 10K 5% 1/6% 611-152 CARBON RESISTOR 10K 5% 1/6% 611-152 CARBON RESISTOR 5.6K 5% 1/6% 611-152 CARBON RESISTOR 1.0K 5% 1/6% 611-152 CARBON RESISTOR 1.5K 5% 1/6% 611-152 CARBON RESIST	521	G	611-15	ARBON RESISTO	150K 5% 1/6	
61331 CARBON RESISTOR 4.7K 5% 1/6W 6513-472 CARBON RESISTOR 4.7K 5% 1/6K 67J-562 CARBON RESISTOR 4.7K 5% 1/6K 67J-562 CARBON RESISTOR 4.7K 5% 1/6K 67J-562 CARBON RESISTOR 100K 5% 1/6K 61J-123 CARBON RESISTOR 100K 5% 1/6W 61J-123 CARBON RESISTOR 100K 5% 1/6W 61J-223 CARBON RESISTOR 100K 5% 1/6W 61J-223 CARBON RESISTOR 22K 5% 1/6W 61J-223 CARBON RESISTOR 22K 5% 1/6W 61J-223 CARBON RESISTOR 22K 5% 1/6W 61J-223 CARBON RESISTOR 100K 5% 1/6W 61J-223 CARBON RESISTOR 100K 5% 1/6W 61J-223 CARBON RESISTOR 100K 5% 1/6W 61J-223 CARBON RESISTOR 5.6K 5% 1/6W 61J-392 CARBON RESISTOR 5.6K 5% 1/6W 61J-102 CARBON RESISTOR 1.0K 5% 1/6W 61J-102 CARBON	525	Ø	611-39	ARBON RESISTO	3.9K 5% 1/6	
613-472 CARBON RESISTOR 4.7K 5% 1/6 613-472 CARBON RESISTOR 4.7K 5% 1/6 613-472 CARBON RESISTOR 4.7K 5% 1/6 613-104 CARBON RESISTOR 100K 5% 1/6 613-104 CARBON RESISTOR 15K 5% 1/6 613-123 CARBON RESISTOR 15K 5% 1/6 613-223 CARBON RESISTOR 20% 5% 1/6 613-23 CARBON RESISTOR 20% 5% 1/6 613-821 CARBON RESISTOR 100K 5% 1/6 613-821 CARBON RESISTOR 20% 5% 1/6 613-821 CARBON RESISTOR 20% 5% 1/6 613-822 CARBON RESISTOR 1.2M 5% 1/6 613-823 CARBON RESISTOR 1.2M 5% 1/6 613-823 CARBON RESISTOR 1.2M 5% 1/6 613-823 CARBON RESISTOR 1.2M 5% 1/6 613-125 CARBON RESISTOR 1.2M 5% 1/6 613-125 CARBON RESISTOR 1.5K 5% 1/6 613-125 CARBON RESISTOR 1.5K 5% 1/6 613-152 CARBON RESISTOR 1.5K 5% 1/6 613-125 CARBON RESISTOR 1.5K 5% 1/6 613-14-102 CARBON RESISTOR 1.5K 5% 1/6 613-152 CARBON RESISTOR 1.5K 5% 1/6 613-124-224 CARBON RESISTOR 1.5K 5% 1/6 613-125 CARBON RESISTOR 1.5K 5% 1/6	523	Ø	611-33	ARBON RESISTO	330 5% 1/6W	
613-472 CARBON RESISTOR 4.7K SX 1/66 673-562 CARBON RESISTOR 4.7K SX 1/66 613-10473 CARBON RESISTOR 75.6K 53 1/66 613-1053 CARBON RESISTOR 100K 5X 1/64 613-123 CARBON RESISTOR 12K 5X 1/64 613-223 CARBON RESISTOR 10K 5X 1/64 613-352 CARBON RESISTOR 10K 5X 1/64 613-352 CARBON RESISTOR 10K 5X 1/64 613-352 CARBON RESISTOR 1.2M 5X 1/64 613-352 CARBON RESISTOR 1.2M 5X 1/64 613-352 CARBON RESISTOR 1.2M 5X 1/64 613-273 CARBON RESISTOR 1.5K 5X 1/64 613-273 CARBON RESISTOR 1.5K 5X 1/64 613-273 CARBON RESISTOR 1.5K 5X 1/64 613-152 CARBON RESISTOR 1.5K 5X 1/64 613-103 CARBON RESISTOR 1.5K 5X 1/64 613-152 CARBON RESISTOR 1.5K 5X 1/64 613-103 CARBON RES	524	Ø	613-47	ARBON RESISTO	4.7K 5% 1/6	
673-562 CARBON RESISTOR 5.6K 5% 1/6W CARBON RESISTOR 1004 CARBON RESISTOR 1000 CARBON CARBON RESISTOR 1000 CARBON CARBON RESISTOR 1000 CARBON CARBON RESISTOR 1000 CARBON CARBON RESISTOR 1000 CARBON	525	Ø	611-47	ARBON RESISTO	4.7K 5X 1/6	
613-473 CARBON RESISTOR 47K 5% 1/6W CARBON RESISTOR 100K 5% 1/6W CALJ-153 CARBON RESISTOR 15K 5% 1/6W CALJ-153 CARBON RESISTOR 15K 5% 1/6W CALJ-473 CARBON RESISTOR 12K 5% 1/6W CALJ-223 CARBON RESISTOR 22K 5% 1/6W CALJ-153 CARBON RESISTOR 22K 5% 1/6W CALJ-153 CARBON RESISTOR 22K 5% 1/6W CALJ-153 CARBON RESISTOR 22K 5% 1/6W CALJ-22 CARBON RESISTOR 22K 5% 1/6W CALJ-821 CARBON RESISTOR 1.2M 5% 1/6W CALJ-62 CARBON RESISTOR 1.2M 5% 1/6W CALJ-62 CARBON RESISTOR 1.2M 5% 1/6W CALJ-62 CARBON RESISTOR 1.2M 5% 1/6W CALJ-63 CARBON RESISTOR 1.2K 5% 1/6W CALJ-63 CARBON RESISTOR 1.5K 5% 1/6W CALJ-63 CARBON RESISTOR 1.5K 5% 1/6W CALJ-102 CARBON RESISTOR 1.5K 5% 1/6W CALJ-102 CARBON RESISTOR 1.5K 5% 1/6W CALJ-103 CARBON RESISTOR 1.5K 5% 1/6W CALJ-224 CARBON RESISTO	529	O	671-56	ARBON RESISTO	5.6K 5% 1/6	
613-104 CARBON RESISTOR 100K 5% 1/6% 613-153 CARBON RESISTOR 125 5% 1/6% 673-132 CARBON RESISTOR 125 5% 1/6% 673-322 CARBON RESISTOR 125 5% 1/6% 613-223 CARBON RESISTOR 127 5% 1/6% 613-223 CARBON RESISTOR 125 5% 1/6% 613-103 CARBON RESISTOR 125 5% 1/6% 613-104 CARBON RESISTOR 125 5% 1/6% 613-104 CARBON RESISTOR 125 5% 1/6% 613-104 CARBON RESISTOR 126 5% 1/6% 673-104 CARBON RESISTOR 120 5% 1/6% 673-105 CARBON RESISTOR 120 5% 1/6% 613-102 CARBON RESISTOR 120 5% 1/6% 613-102 CARBON RESISTOR 120 5% 1/6% 613-102 CARBON RESISTOR 125 5% 1/6% 613-103 CARBON CARBON CARBON	531	Ø	613-47	ARBON RESISTO	47K 5% 1/6W	
61J-153 CARBON RESISTOR 15K 5% 1/6W CARBON RESISTOR 12K 5% 1/6W 61J-123 CARBON RESISTOR 12K 5% 1/6W 61J-223 CARBON RESISTOR 22K 5% 1/6W 61J-103 CARBON RESISTOR 10K 5% 1/6W 61J-103 CARBON RESISTOR 10K 5% 1/6W 61J-104 CARBON RESISTOR 10K 5% 1/6W 61J-223 CARBON RESISTOR 10K 5% 1/6W 61J-392 CARBON RESISTOR 5.6K 5% 1/6W 61J-392 CARBON RESISTOR 10K 5% 1/6W 61J-392 CARBON RESISTOR 5.6K 5% 1/6W 61J-392 CARBON RESISTOR 1.2M 5% 1/6W 61J-102 CARBON RESISTOR 1.2M 5% 1/6W 61J-102 CARBON RESISTOR 1.2M 5% 1/6W 61J-102 CARBON RESISTOR 1.5K 5% 1/6W 61J-102 CARBON RESISTOR 27% 5% 1/6W 61J-102 CARBON RESISTOR 1.5K 5% 1/6W 61J-102 CARBON RESISTOR 1.5K 5% 1/6W 61J-103 CARBON RESISTOR 1.5K 5% 1/6W 61J-224 CARBON RESISTOR 1.5K 5% 1	532	Ø	61J-10	ARBON RESISTO	100K 5% 1/6	
613-123 CARBON RESISTOR 12K 5X 1/6W 6513-123 CARBON RESISTOR 3.3K 5X 1/6W 613-223 CARBON RESISTOR 22K 5X 1/6W 613-223 CARBON RESISTOR 22K 5X 1/6W 613-823 CARBON RESISTOR 15K 5X 1/6W 613-823 CARBON RESISTOR 15K 5X 1/6W 613-823 CARBON RESISTOR 15K 5X 1/6W 671-823 CARBON RESISTOR 5.6K 5X 1/6W 671-821 CARBON RESISTOR 5.6K 5X 1/6W 671-392 CARBON RESISTOR 5.6K 5X 1/6W 671-392 CARBON RESISTOR 5.6K 5X 1/6W 671-392 CARBON RESISTOR 1.2M 5X 1/6W 671-392 CARBON RESISTOR 1.2M 5X 1/6W 671-102 CARBON RESISTOR 1.0M 5X 1/6W 671-102 CARBON RESISTOR 1.0M 5X 1/6W 671-102 CARBON RESISTOR 1.0K 5X 1/6W 671-273 CARBON RESISTOR 1.0K 5X 1/6W 671-102 CARBON RESISTOR 1.0K 5X 1/6W 671-102 CARBON RESISTOR 1.0K 5X 1/6W 611-102 CARBON RESISTOR 1.0K 5X 1/6W 611-224 CARBON RESISTOR 1.0K 5X 1/6W 611-24 CARBON RESISTOR 1.0K 5X 1/6W 611-24 CARBON RES	533	Ø	61J-15	ARBON RESISTO	15K 5% 1/6	
67J-332 CARBON RESISTOR 3.3K 5% 1/6% 61J-473 CARBON RESISTOR 47K 5% 1/6% 61J-473 CARBON RESISTOR 47K 5% 1/6% 61J-153 CARBON RESISTOR 10K 5% 1/6% 61J-153 CARBON RESISTOR 10K 5% 1/6% 61J-821 CARBON RESISTOR 22K 5% 1/6% 61J-821 CARBON RESISTOR 22K 5% 1/6% 61J-821 CARBON RESISTOR 22K 5% 1/6% 61J-821 CARBON RESISTOR 3.6K 5% 1/6% 61J-125 CARBON RESISTOR 1.2M 5% 1/6% 61J-152 CARBON RESISTOR 1.2M 5% 1/6% 61J-152 CARBON RESISTOR 1.2M 5% 1/6% 61J-152 CARBON RESISTOR 1.5K 5% 1/6% 61J-163 CARBON RESISTOR 1.5K 5% 1/6% 61J-633 CARBON RESISTOR 1.5K 5% 1/6% 61J-101 CARBON RESISTOR 1.5K 5% 1/6% 61J-102 CARBON RESISTOR 1.5K 5% 1/6% 61J-102 CARBON RESISTOR 1.5K 5% 1/6% 61J-473 CARBON RESISTOR 1.5K 5% 1/6% 61J-224 CARBON RESISTOR 1.0K 5% 1/6% 61J-224 CARBON RES	541	ø	61J-12	ARBON RESISTO	12K 5% 1/6	
613-673 CARBON RESISTOR 47K 5% 1/6W 613-223 CARBON RESISTOR 10K 5% 1/6W 613-223 CARBON RESISTOR 10K 5% 1/6W 613-153 CARBON RESISTOR 10K 5% 1/6W 613-104 CARBON RESISTOR 10K 5% 1/6W 613-821 CARBON RESISTOR 10K 5% 1/6W 613-821 CARBON RESISTOR 20K 5% 1/6W 613-821 CARBON RESISTOR 20K 5% 1/6W 613-821 CARBON RESISTOR 1.2M 5% 1/6W 613-125 CARBON RESISTOR 1.2M 5% 1/6W 613-102 CARBON RESISTOR 1.2M 5% 1/6W 613-102 CARBON RESISTOR 1.2M 5% 1/6W 613-102 CARBON RESISTOR 1.2K 5% 1/6W 613-102 CARBON RESISTOR 1.5K 5% 1/6W 613-103 CARBON RESISTOR 1.5K 5% 1/6W 613-224 CARBON RESI	245	Ø	671-33	ARBON RESISTO	3.3K 5% 1/	
61J-223 CARBON RESISTOR 22K 5X 1/6W 61J-103 CARBON RESISTOR 10K 5X 1/6W 61J-103 CARBON RESISTOR 15K 5X 1/6W 61J-104 CARBON RESISTOR 15K 5X 1/6W 61J-104 CARBON RESISTOR 15K 5X 1/6W 61J-223 CARBON RESISTOR 5.6K 5X 1/6W 61J-392 CARBON RESISTOR 1.2M 5X 1/6W 61J-302 CARBON RESISTOR 1.2M 5X 1/6W 61J-102 CARBON RESISTOR 1.2M 5X 1/6W 61J-102 CARBON RESISTOR 1.2M 5X 1/6W 61J-102 CARBON RESISTOR 1.5K 5X 1/6W 61J-103 CARBON RESISTOR 1.5K 5X 1/6W 61J-103 CARBON RESISTOR 1.5K 5X 1/6W 61J-102 CARBON RESISTOR 1.5K 5X 1/6W 61J-102 CARBON RESISTOR 1.5K 5X 1/6W 61J-103 CARBON RESISTOR 1.5K 5X 1/6W 61J-103 CARBON RESISTOR 1.5K 5X 1/6W 61J-103 CARBON RESISTOR 1.5K 5X 1/6W 61J-224 CARBON R	543	Ø	611-47	ARBON RESISTO	47K 5% 1/6	
61J-103 CARBON RESISTOR 10K 5% 1/6W 6LJ-153 CARBON RESISTOR 15K 5% 1/6W 6LJ-1623 CARBON RESISTOR 10K 5% 1/6W 6LJ-223 CARBON RESISTOR 100K 5% 1/6W 6LJ-562 CARBON RESISTOR 5.6K 5% 1/6W 6LJ-322 CARBON RESISTOR 5.6K 5% 1/6W 6LJ-125 CARBON RESISTOR 5.6K 5% 1/6W 6LJ-125 CARBON RESISTOR 7.9K 5% 1/6W 6LJ-152 CARBON RESISTOR 1.0K 5% 1/6W 6LJ-152 CARBON RESISTOR 1.0K 5% 1/6W 6LJ-1632 CARBON RESISTOR 1.0K 5% 1/6W 6LJ-1633 CARBON RESISTOR 1.0K 5% 1/6W 6LJ-1633 CARBON RESISTOR 1.0K 5% 1/6W 6LJ-163 CARBON RESISTOR 1.0K 5% 1/6W 6LJ-163 CARBON RESISTOR 1.0K 5% 1/6W 6LJ-163 CARBON RESISTOR 1.0K 5% 1/6W 6LJ-103 CARBON RESISTOR 1.0K 5% 1/6W 6LJ-103 CARBON RESISTOR 1.0K 5% 1/6W 6LJ-103 CARBON RESISTOR 1.0K 5% 1/6W 6LJ-224 CA	544	ø	611-22	ARBON RESISTO	22K 5% 1/6	
613-153 CARBON RESISTOR 15K 5% 1/6W 613-821 CARBON RESISTOR 820 5% 1/6W 613-821 CARBON RESISTOR 820 5% 1/6W 613-22 CARBON RESISTOR 820 5% 1/6W 613-821 CARBON RESISTOR 820 5% 1/6W 613-821 CARBON RESISTOR 820 5% 1/6W 613-125 CARBON RESISTOR 1.2M 5% 1/6W 613-125 CARBON RESISTOR 1.2M 5% 1/6W 613-125 CARBON RESISTOR 1.2M 5% 1/6W 613-632 CARBON RESISTOR 1.5K 5% 1/6W 613-632 CARBON RESISTOR 1.5K 5% 1/6W 613-632 CARBON RESISTOR 1.5K 5% 1/6W 613-101 CARBON RESISTOR 1.5K 5% 1/6W 613-102 CARBON RESISTOR 1.5K 5% 1/6W 613-103 CARBON RESISTOR 1.5K 5% 1/6W 613-224 CARBON RESISTOR 1.0K 5% 1/6W 613-24 CARBON RESISTOR 1.	545	Ø	611-10	ARBON RESISTO	10K 5% 1/6	
61J-821 CARBON RESISTOR 820 5% 1/6W 61J-104 CARBON RESISTOR 100K 5% 1/6W 61J-104 CARBON RESISTOR 20K 5% 1/6W 67J-562 CARBON RESISTOR 5.6K 5% 1/6W 61J-392 CARBON RESISTOR 3.9K 5% 1/6W 61J-102 CARBON RESISTOR 3.9K 5% 1/6K 67J-562 CARBON RESISTOR 1.2K 5% 1/6K 67J-332 CARBON RESISTOR 1.2K 5% 1/6K 67J-332 CARBON RESISTOR 1.5K 5% 1/6W 61J-683 CARBON RESISTOR 1.5K 5% 1/6W 61J-152 CARBON RESISTOR 27K 5% 1/6W 61J-152 CARBON RESISTOR 1.5K 5% 1/6W 61J-473 CARBON RESISTOR 1.5K 5% 1/6W 61J-224 CARBON	548	Ø	611-15	ARBON RESISTO	15K 5% 1/6	
611-223 CARBON RESISTOR 100K 5% 1/6 671-623 CARBON RESISTOR 2.6K 5% 1/6W 6513-682 CARBON RESISTOR 2.6K 5% 1/6W 611-821 CARBON RESISTOR 3.6K 5% 1/6W 611-392 CARBON RESISTOR 3.9K 5% 1/6W 611-102 CARBON RESISTOR 1.2M 5% 1/6 611-102 CARBON RESISTOR 1.0K 5% 1/6W 611-102 CARBON RESISTOR 1.0K 5% 1/6W 611-273 CARBON RESISTOR 1.5K 5% 1/6W 611-273 CARBON RESISTOR 3.3K 5% 1/6W 611-273 CARBON RESISTOR 2.5K 5% 1/6W 611-152 CARBON RESISTOR 1.5K 5% 1/6W 611-152 CARBON RESISTOR 1.5K 5% 1/6W 611-152 CARBON RESISTOR 1.0K 5% 1/6W 611-102 CARBON RESISTOR 1.0K 5% 1/6W 611-224 CARBON RESISTOR 1.0K 5% 1/6W 611-24 CARBON RESISTOR	249	g	611-82	ARBON RESISTO	820 5% 17	
611-223 CARBON RESISTOR 22K 5% 1/6W 611-562 CARBON RESISTOR 5.6K 5% 1/6M 611-821 CARBON RESISTOR 5.6K 5% 1/6M 611-32 CARBON RESISTOR 5.9K 5% 1/6M 611-125 CARBON RESISTOR 1.2M 5% 1/6M 611-152 CARBON RESISTOR 1.2M 5% 1/6M 611-152 CARBON RESISTOR 1.0K 5% 1/6M 611-683 CARBON RESISTOR 1.5K 5% 1/6M 611-683 CARBON RESISTOR 1.5K 5% 1/6M 611-683 CARBON RESISTOR 1.5K 5% 1/6M 611-152 CARBON RESISTOR 1.0C 5% 1/6M 611-152 CARBON RESISTOR 1.0C 5% 1/6M 611-152 CARBON RESISTOR 1.0C 5% 1/6M 611-103 CARBON RESISTOR 1.0C 5% 1/6M 611-103 CARBON RESISTOR 1.0C 5% 1/6M 611-103 CARBON RESISTOR 1.0K 5% 1/6M 611-103 CARBON RESISTOR 1.0K 5% 1/6M 611-224 CARBON RESISTOR 1.0K 5% 1/6M 611-24 CARBON RESI	550	Ø	611-10	ARBON RESISTO	100K 5% 1/	
671-562 CARBON RESISTOR 5.6K 5% 1/6 611-821 CARBON RESISTOR 820 5% 1/6W 611-125 CARBON RESISTOR 1.2M 5% 1/6W 611-125 CARBON RESISTOR 1.2M 5% 1/6 671-102 CARBON RESISTOR 1.0K 5% 1/6 611-102 CARBON RESISTOR 1.0K 5% 1/6W 611-683 CARBON RESISTOR 1.5K 5% 1/6W 611-683 CARBON RESISTOR 88K 5% 1/6W 611-101 CARBON RESISTOR 88K 5% 1/6W 611-152 CARBON RESISTOR 100 5% 1/6W 611-152 CARBON RESISTOR 1.5K 5% 1/6W 611-103 CARBON RESISTOR 1.5K 5% 1/6W 611-224 CARBON RESISTOR 1.0K 5% 1/6W 611-224 CARBON RESISTOR 1.0K 5% 1/6W	551	G	611-22	ARBON RESISTO	22K 5% 1/6	
61J-821 CARBON RESISTOR 820 5% 1/6W 61J-392 CARBON RESISTOR 1.2W 5% 1/6 61J-392 CARBON RESISTOR 1.2W 5% 1/6 67J-562 CARBON RESISTOR 1.2W 5% 1/6 61J-102 CARBON RESISTOR 1.5K 5% 1/6 67J-332 CARBON RESISTOR 1.5K 5% 1/6 67J-332 CARBON RESISTOR 3.3K 5% 1/6 61J-273 CARBON RESISTOR 5.7K 5% 1/6W 61J-152 CARBON RESISTOR 70 5% 1/6W 61J-152 CARBON RESISTOR 1.5K 5% 1/6W 61J-102 CARBON RESISTOR 1.5K 5% 1/6W 61J-103 CARBON RESISTOR 1.5K 5% 1/6W 61J-103 CARBON RESISTOR 1.5K 5% 1/6W 61J-224 CARBON RESISTOR 1.5K 5% 1/6W 61J-24 CARBON RESISTOR 1	555	œ	671-56	ARBON RESISTO	5.6K 5% 1/6	
611-392 CARBON RESISTOR 3.9K 5% 1/6 611-125 CARBON RESISTOR 1.2M 5% 1/6 611-102 CARBON RESISTOR 1.0K 5% 1/6 611-152 CARBON RESISTOR 1.0K 5% 1/6 671-332 CARBON RESISTOR 1.5K 5% 1/6 671-273 CARBON RESISTOR 2.7K 5% 1/6 611-273 CARBON RESISTOR 2.7K 5% 1/6 611-101 CARBON RESISTOR 2.7K 5% 1/6 611-102 CARBON RESISTOR 2.7K 5% 1/6 611-103 CARBON RESISTOR 1.5K 5% 1/6 611-224 CARBON RESISTOR 1.0K 5% 1/6	553	g	61J-82	ARBON RESISTO	820 5% 1/6	
611-125 CARBON RESISTOR 1.2M 5% 1/6 612-1562 CARBON RESISTOR 5.6K 5% 1/6 613-152 CARBON RESISTOR 1.0K 5% 1/6 611-683 CARBON RESISTOR 1.0K 5% 1/6 611-683 CARBON RESISTOR 68K 5% 1/6M 613-101 CARBON RESISTOR 27K 5% 1/6M 613-152 CARBON RESISTOR 100 5% 1/6M 613-152 CARBON RESISTOR 100 5% 1/6M 613-152 CARBON RESISTOR 1.5K 5% 1/6M 613-103 CARBON RESISTOR 1.5K 5% 1/6M 613-103 CARBON RESISTOR 1.0K 5% 1/6M 613-224 CARBON RESISTOR 1.0K 5% 1/6M 613-224 CARBON RESISTOR 1.0K 5% 1/6M 613-224 CARBON RESISTOR 1.0K 5% 1/6M	555	<u> </u>	611~39	ARBON RESISTO	3.9K 5% 1/6	
67J-562 CARBON RESISTOR 5.6K 5% 1/6 61J-102 CARBON RESISTOR 1.0K 5% 1/6 61J-683 CARBON RESISTOR 1.0K 5% 1/6 67J-532 CARBON RESISTOR 68K 5% 1/6M 61J-683 CARBON RESISTOR 68K 5% 1/6M 61J-101 CARBON RESISTOR 700 5% 1/6M 61J-152 CARBON RESISTOR 1.0K 5% 1/6M 61J-152 CARBON RESISTOR 1.0K 5% 1/6M 61J-103 CARBON RESISTOR 1.0K 5% 1/6M 61J-103 CARBON RESISTOR 1.0K 5% 1/6M 61J-224 CARBON RESISTOR 1.0K 5% 1/6M 61J-224 CARBON RESISTOR 1.0K 5% 1/6M	229	ø	61J-12	ARBON RESISTO	1.2M 5% 1/6	
61J-102 CARBON RESISTOR 1.0K 5% 1/6 61J-152 CARBON RESISTOR 1.5K 5% 1/6 67J-352 CARBON RESISTOR 3.3K 5% 1/6 61J-683 CARBON RESISTOR 3.7K 5% 1/6W 61J-1023 CARBON RESISTOR 27K 5% 1/6W 61J-152 CARBON RESISTOR 105 5% 1/6W 61J-152 CARBON RESISTOR 1.5K 5% 1/6W 61J-103 CARBON RESISTOR 1.5K 5% 1/6W 61J-103 CARBON RESISTOR 1.0K 5% 1/6W 61J-103 CARBON RESISTOR 1.0K 5% 1/6W 61J-224 CARBON RESISTOR 1.0K 5% 1/6W	261	<u>ح</u>	95-179	ARBON RESISTO	5.6K 5% 1/6	
61J-152 CARBON RESISTOR 1.5K 5% 1/6 67J-332 CARBON RESISTOR 3.3K 5% 1/6 61J-273 CARBON RESISTOR 27K 5% 1/6W 61J-101 CARBON RESISTOR 100 5% 1/6W 61J-152 CARBON RESISTOR 1.5K 5% 1/6W 61J-102 CARBON RESISTOR 1.5K 5% 1/6W 61J-103 CARBON RESISTOR 1.5K 5% 1/6W 61J-103 CARBON RESISTOR 1.0K 5% 1/6W 61J-224 CARBON RESISTOR 1.0K 5% 1/6W 61J-224 CARBON RESISTOR 1.0K 5% 1/6W	295	<u> </u>	61,1-10	ARBON RESISTO	1.0K 5% 1/6	
613-252 CARBON RESISTOR 68K 5% 1/6 6 6 13-273 CARBON RESISTOR 68K 5% 1/6 4 6 13-101 CARBON RESISTOR 100 5% 1/6 4 6 13-152 CARBON RESISTOR 1.5K 5% 1/6 6 13-473 CARBON RESISTOR 1.5K 5% 1/6 6 13-103 CARBON RESISTOR 1.0K 5% 1/6 6 13-224 CARBON RESISTOR 1.0K 5% 1/6 6 14-224 CARBON RESISTOR 1.0K 5% 1/6 6 14-24-24 C	200	3 0	CI [10	ARBON RESISTO	1.55 52 1/6	
61J-683 CARBON RESISTOR 68K 5% 1/6W 61J-273 CARBON RESISTOR 27K 5% 1/6W 61J-101 CARBON RESISTOR 100 5% 1/6W 61J-152 CARBON RESISTOR 1.5K 5% 1/6W 61J-102 CARBON RESISTOR 1.0K 5% 1/6W 61J-103 CARBON RESISTOR 1.0K 5% 1/6W 61J-224 CARBON RESISTOR 1.0K 5% 1/6W 61J-224 CARBON RESISTOR 1.0K 5% 1/6W	1 0	3 (22-170	AKBON KESISIO	5.5K 5% 1/	
013-273 CARBON RESISTOR 27K 5% 1/6W 613-101 CARBON RESISTOR 100 5% 1/6W 613-152 CARBON RESISTOR 47K 5% 1/6W 613-102 CARBON RESISTOR 1.0K 5% 1/6W 613-103 CARBON RESISTOR 1.0K 5% 1/6W 613-224 CARBON RESISTOR 50K 5% 1/6W 613-224 CARBON RESISTOR 20K	0 1	3 (89-519	ARBON RESISTO	68K 5% 1/6	
01J-101 CARBON RESISTOR 1.00 5% 1/6W RESISTOR 1.5K 5% 1/6W 61J-473 CARBON RESISTOR 47K 5% 1/6W 61J-102 CARBON RESISTOR 1.0K 5% 1/6W 61J-103 CARBON RESISTOR 10K 5% 1/6W 61J-24 CARBON RESISTOR 200 5% 1/6W 61J-24 CARBON RESISTOR 200 5% 1/6W 61J-24	0 0	3 (77-510	ARBON RESISTO	2/K 5% 1/6	
013-152 CARBON RESISION 1.5K 5% 1/6 613-1673 CARBON RESISTOR 475 5% 1/6W 613-103 CARBON RESISTOR 1.0K 5% 1/6W 613-103 CARBON RESISTOR 10K 5% 1/6W 613-224 CARBON RESISTOR 22.0K 5% 1/6W	200	3 (AKBON KESISIO	100 22 1/6%	
RD1611-473 CARBON RESISTOR 47K 5% 1/6 RD1611-102 CARBON RESISTOR 1.0K 5% 1/ RD1611-103 CARBON RESISTOR 10K 5% 1/6 RD1611-224 CARBON RESISTOR 220K 5% 1/6 RD1611-224 CARBON RESISTOR 220K 5% 1/6	284	9	613-15	ARBON RESISTO	1.5K 5% 1/6	
RD161J-102 CARBON RESISTOR 1.0K 5% 1/ RD161J-103 CARBON RESISTOR 10K 5% 1/6 RD161J-224 CARBON RESISTOR 220K 5% 1/6	291	<u> </u>	RD161J-47	ARBON RESISTO	47K 5% 1/6	
RD161J-105 CARBON RESISTOR 10K 5% 1/6 80161J-224 CARBON RESISTOR 220K 5% 1/6	61.1	3 (RD161J-10	ARBON RESISTO	1.0K 5% 1/	
R0161J-224 CARBON RESISTOR 220K 5% 1/	612	<u> </u>	RD161J-10	ARBON RESISTO	10K 5% 1/6	
7/ 63 /6/ 1901939 190893	613	<u> </u>	RD161J-22	ARBON RESISTO	220K 5% 1/	

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SUFFIX															-																			- Andrews	
NO. OC																																1			
BLOCK	NEWANA	2M 5% 1/	5K 5% 1/	M9/1 %5 7	78 58 1/6	W 1 2 1 0 0	30K 5% 1/	0/T % 1 100	0 / 1 / 2 / 2 / 2 / 2 / 2 / 2 / 2 / 2 / 2	0	200	*	80K 5% 1/6	80K 5% 1/6	1 2 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	OK 5% 1/5	0/1 % V VO	0/T % U C 0	27 47 00	2	7/1	2/1 %C 00	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	80 52 1/6	80 52 1/6									- The state of the	
PAR'TS NAME	ANIS MAME	CARBON RESISTOR	AKBON KESISTO	AKBON KENING	ARBON RESISTO	AKBON KENINIO	DISTRUCT NODES	CHOLORGE MODES	O FOLGER MODES	APRON RESISTO	OLOTOTIC MODOL	0 - 0 - 0 - 0 - 0 - 0 - 0 - 0 - 0 - 0 -	AKBON KENING	AKBON KESISIO	DECEMBER AND	APPON PESTATO	APRON PERIOD	OF CT	ADDA DECTOTO	ARRON RESISTO	ADBON DESTATO	ADBON DECISION	O POTOTO NOON	AKBUN KESISIU	AKBON KESISIO	RESISTO	E.								
PARTS NO.	N GINVI	Ċ.	KD161J-55	701017182	RU161J-47	KU 1010-47	701013-10			RD1613-10	7777		201017-18	KU161J-18	01-11-10	RD1611-10	01-11-10-0	PD1411-48	001611-00	RD1613-68	DD1411-48	PD 141 - 48			189-11910	VPA601-154A	SA16.93MXZ								
REF		R 615	0 .	0 1	0 1		0 4	0 1	0 1	9 4		1 0	0 ,	,	0 7	5 6	\ \ \	0	9	9	100	9		9 9	9 6	R 50	9								

9. Exploded View of Enclosure Assembly



• Enclosure component parts list

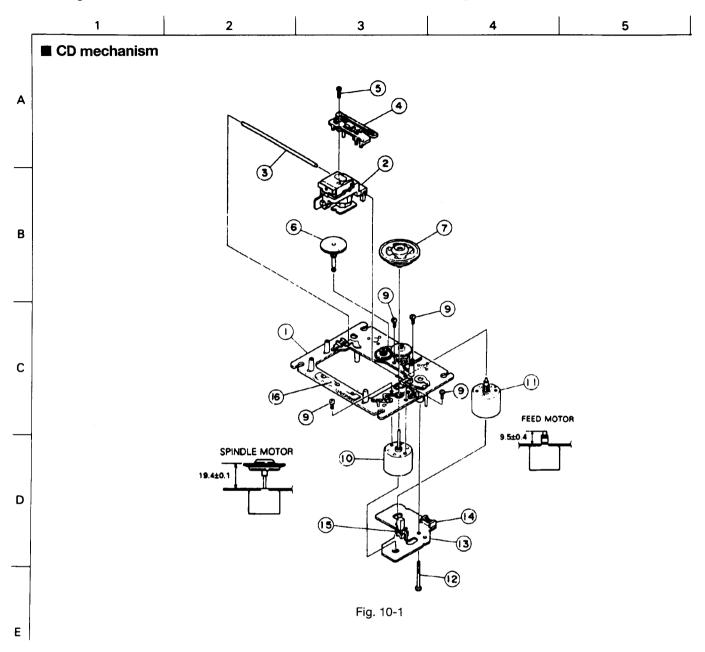
BLOCK NO. M1	MM
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				BLOCK NO. MILIMI	<u> </u>		
Φ	REF.	PARTS NO.	PARTS NAME	REMARKS	QTY	SUFFIX	CLR
Н	1	VJG1373-00A	FRONT C.ASS'Y		1		
	2	VGS1001-034	SPEAKER		2		
	3	SBSF3008Z	SCREW	FOR SPEAKER	6		
	4	VYH8087-001	SPEAKER CLAMP		6		
	5	VXP3740-001	CD SEARCH BUTTO		1		
Н		VXP3743-001	POWER BUTTON	40010-205-00-01	1		
	7	VXP2118-001	FUNCTION BUTTON	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	1		
	8	VXP2117-001	VOLUME BUTTON	+/- KNOB	1		
		VKL7824-002	SW PWB BKT(D)		1		
		VKL7836-001	SW PCB SUPP.BKT		2		
\vdash		VJK2204-001	LCD LENS	<u> </u>	1		
	13		SCREW	FOR BUTTON	5		
	14	VJD2463-001	FRONT COVER(B)		1 1		
		VKL7817-001	SW PWB BKT(A)	50010-131-00-01	1		
		VKL7823-002	SW PWB BKT(C)	30010 131 00 01	1		
H	17	SDSP3004Z	SCREW	FOR SW PWB + BK	3		1
		SBSF2608Z	SCREW	FOR SW BKT+F.CA	3		
		VJD1204-003	TOP COVER	40010-451-03-01	1		
		VXP2112-001	MECH BUTTON	40010-207-00-01	1		
П		VXP2112-002	MECH BUTTON	40010-208-00-01	1		
H	23		MECH BUTTON	40010-209-00-01	1		
		VXP2112-004	MECH BUTTON	40010-210-00-01	1		
	25		MECH BUTTON	40010-211-00-01	1		
		VXP2112-006	MECH BUTTON	40010-212-00-01	1		
		VXP2112-007	MECH BUTTON	40010-213-00-01	1		
\vdash		VXP2112-008	MECH BUTTON	40010-214-00-01	1		
		VXP2112-008	MECH BUTTON	40010-215-00-01	1		
		VXP2112-009 VXP2112-010	MECH BUTTON	40010-216-00-01	1		
		VYH7877-001	SHAFT	71200-010-01-00	1		
		VYH8006-001	BUTTON LEVER	40010-652-00-01	10		
\vdash		E65923-003	TAPPING SCREW	40010 032 00 01	2	·	
		VJT2361-001	CASSETTE DOOR(L	40010-301-00-01	1		
		VJT2362-001	CASSETTE DOOR(R	40010-302-00-01	1		
		VJT3378-005	DOOR LENS(L)	40010-341-03-01	1 1		
l		VJT3378-006	DOOR LENS(R)	40010-342-03-01	1 1		
\vdash	·	VYH8007-001	GEAR	40010-604-00-01	2		<u> </u>
•		VKW5213-002	DOOR SPRING(L)	1010 004 00 01	2		
		VE406291-001	PLATE	FOR CAM	1		
	41		CASSETTE MECHA.	1 . 3	1		
		SBSF3010Z	SCREW	FOR CASS.MECHA	6		
Н		VKY4718-001	REC SPRING	71100-043-01-01	1		1
		SDST2003Z	SCREW	FOR REC SPRING	1 1		
		VKS5543-001	LED HOLDER	40010-501-00-01	1 1		
		VYH3900-002	HEAT SINK	78000-007-02-00	1 1		
		SDSP3008Z	SCREW	1.5500 007 02 00	3		
\vdash		SBSF3010Z	SCREW	MAIN+TOP COVER	4		+
		VKL7813-001	LCD HOLDER	50010-136-00-01	1 1		
		SBSF3010Z	SCREW	E.VOL.PWB+T.COV	1		
		VYH1255-001	LOADING BASE	40010-506-00-01	1		
		RF-500TB-12560	MOTOR	1.3015 330 00 01	1		
H		SPSK2640Z	MINI SCREW	+	2		+
		VE75984-001	MOTOR PULLEY	40010-681-00-01	1		
		VE75950-002	BELT	77100-003-01-00	1 1		
		VE75985-001	GEAR(1)	40010-601-00-01	1		
	٥ر	V		1.3010 001 00 01	*		
		l		<u> </u>			

BLOCK NO. MIMM	BLOCK	NO.	M1MM
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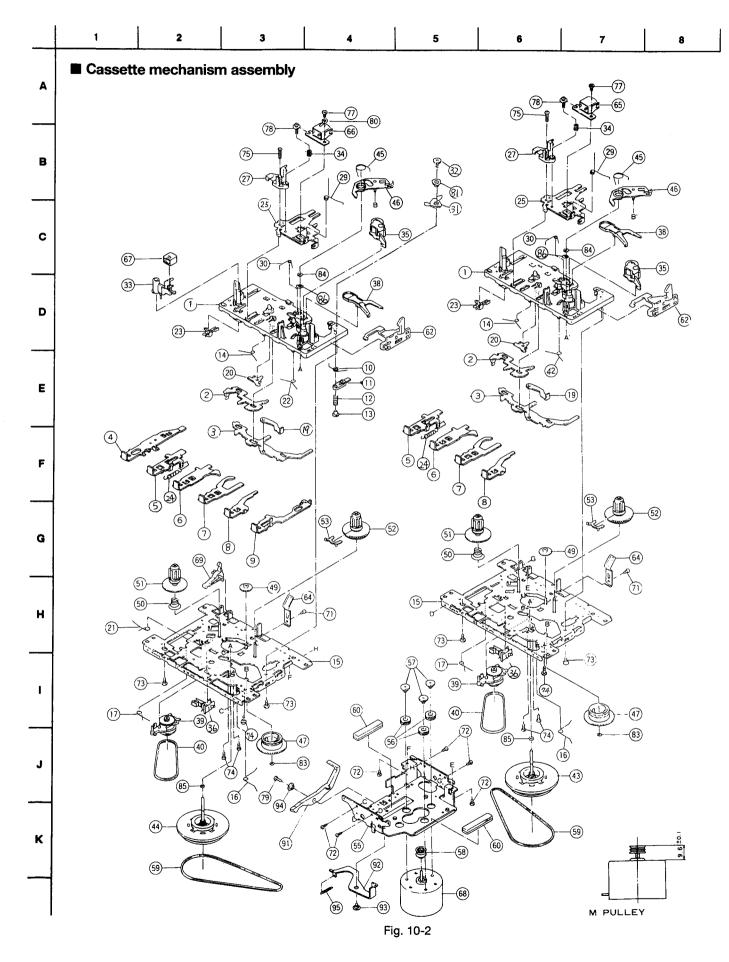
				BLUCK NU. PILIPIP	<u> </u>		
Φ	REF.	PARTS NO.	PARTS NAME	REMARKS	QTY	SUFFIX	CLR
H	59	VE75986-002	GEAR(2)	40010-602-00-01	1		
		VE75987-001	GEAR(3)	40010-603-00-01	1	ĺ	
		VE307162-001	LEVER	40010-651-00-01	1		
		VE307160-001	CAM	40010-653-00-01	1		
\mathbf{I}		E65923-003	TAPPING SCREW	40010 033 00 01	_		
H	64	VYH7787-001	SPRING	71100-049-01-01	3		
				71100-049-01-01	1		
11		SBSF3008Z	SCREW	50040 474 00 04	1		
	1	VE307179-002	E_BASE ASS'Y	50010-134-00-01	1		
11	1	E406871-001	SPRING	71100-047-01-01	2		
\square		VE406294-002	INSULATOR	76402-002-01-01	4		
	- 1	VE60912-001	SPEED NUT	40010-441-00-01	1		
	,	E406293-001	SPECIAL SCREW		1		
	71	VYH3901-001	CLAMPER	40010-505-00-01	1		
	72	VYH7315-005	PAD	76300-014-02-02	1		
	73	VYH7313-004	MAGNET		1		
П	74	GBSF2606Z	SCREW	FOR CLAMPER	1		\top
	1	VYH2314-001	CLAMPER BASE	40010-508-00-01	1		
		VYH3764-001	CLAMPER PLATE	50010-101-00-01	1		1
11		VJD2462-005	CD FITTING	30010 101 00 01	1		
		VYH1256-001	TRAY	40010-104-00-01	1 :	}	
H	79	SBSF3008Z	SCREW	40010-104-00-01	1 2		
				FOR TRAY STOPPE	2		
		VMA4660-001	SHIELD CASE	50010-135-00-01	1		
Ιİ		SDSR2606Z	SCREW	SHIELD CASE+CD	2		
		SBSF3008Z	SCREW		2		
		SBSF3008Z	SCREW	CLAMPER BASE+L.	2		
	1	C1-PARTS808292	WIRE CLAMP	1	1		
		SDST3006Z	SCREW		1		
	87	VJG1374-001	REAR CABINET	40010-102-00-01	1		
	88	215-021704-00	ANT. ROD	77001-002-01-02	1		ł
	89	VKL7814-001	TERMINAL LUG	50010-103-00-01	1		
П	90	SDSP3012N	SCREW	FOR ROD ANT.	1		
		VJC2554-001	BATTERY COVER	40010-452-00-01	1 1		
		GBSF3016Z	SCREW	FOR TRANS	2		
	I	SBSF3010Z	SCREW	FOR AC	2		
	I	VYH8055-001	SHIELD PLATE	1.5% 775	1		
H		VJH2015-001	HANDLE	40010-391-00-01	1	***************************************	
		VYH8008-001	HANDLE SUPPORTE	40010-591-00-01			
		VKW5212-001	BATTERY SPRING		2		
				71100-050-01-01	1		
	1	207-003305-00	BATTERY SPRING	71100-048-01-01	1 1		1
\vdash		SBSF3040Z	SCREW	FRONT+REAR	6		
	102	VYN5197-002	NAME PLATE	77200-249-01-01	1	В	
		VYN5197-005	NAME PLATE			E,EN	
		VYN5197-008	NAME PLATE	1	1	G	1
		E70891-001	CLASS 1 LABEL		1		
Ц		E406709-001	LASER CAUTION		1		
		QMF51E2-2R5J1	FUSE	2.5A	1		
	T 9	33657-021-01-06	POWER TRANS	V-2409T-B	1		
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				j			
П		······································			+	****	_
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10. Exploded View of Mechanism Assembly



CD mechanism parts list

		<u>-</u>		BLOCK NO. M3			
Δ	REF.	PARTS NO.	PARTS NAME	REMARKS	QTY	SUFFIX	CLR
	1	EPB-002A	MECHA.BASE ASSY		1		
11	2	OPTIMA-6S	PICKUP ASS'Y		1 1		
	3	E406777-001	GAIDE SHAFT		1		
	4	E307746-001	CD RACK		1 1		
1.1	5	SDSF2006Z	SCREW	CD LACK ASS'Y	1		
	6	EPB-003A	MECHA GIAR		1		
	7	E75807-301	CD T.TABLE ASSY		1 1		
	9	SDSP2003N	SCREW	FOR MOTOR	4		
	10	E406783-001	SP MOTOR	SPINDL MOTOR	1		
Ш	11	E406784-001SA	MOTOR ASS'Y	FEED MOTOR	1		
П	12	E75832-001	S.SCREW	M.REAF SWITCH	1		
	13	EMW10190-001	P.C.BOARD	LEAF SWITCH	1		
	14	EMV5109-006B	6P PLUG ASSY		1		
11	15	ESB1100-005	LEAF SWITCH		1		
	16	E407212-001	DAMPER		1		_



• Cassette mechanism component parts list

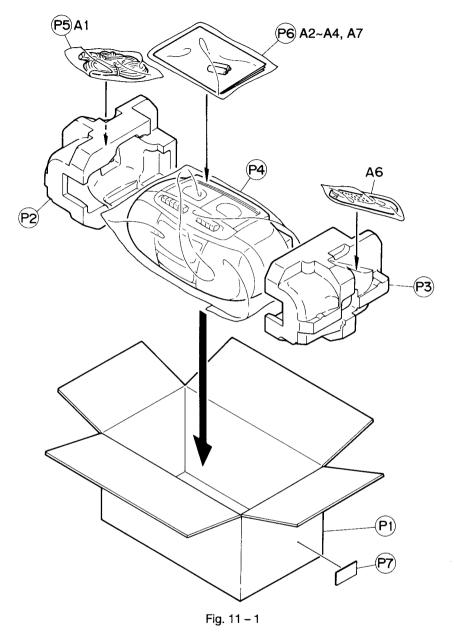
BLOCK NO MISMMITTI

				BLOCK NO. M3M			
Δ	REF.	PARTS NO.	PARTS NAME	REMARKS	QTY	SUFFIX	CLR
Г	1	192114301ZT	BASE ASS'Y		2		
	2	19211409T	SWITCH ACTUATOR		2		
	3	19211408T	LOCK CAM		2		
	4	19211422T	BUTTON LEVER	REC	1		
	5	19211484T	BUTTON LEVER	PLAY	2		
	6	19211424T	BUTTON LEVER	REW	2		
	7	19211425T	BUTTON LEVER		2		
1		19211426T	BUTTON LEVER	STOP	2		
	9	19211461T	BUTTON LEVER	PAUSE	1		
	10	19211413T	P CONT. SPRING	P CONTROL	1		
-		19211482T	PAUSE LEVER		1		+
-		19211412T	SPRING	PAUSE LEVER	1		
		19211411T	PAUSE STOPPER		1		
	1 1	19211414T	TORSION SPRING	BUTTON LEVER	2		
		192101501ZT	CHASSIS ASS'Y		2		
\vdash		19211416T	TORSION SPRING	ACTUATOR SPRING	2		+
		19211417T	TORSION SPRING	LEVER SPRING	2		
		182101159T	E.KICK LEVER		2		
	1	19211420T	STOPPER	ŀ	2		1
	1 1	19211420T	TORSION SPRING	REC BUTTON	1		1
-		192114211 19211415T	TORSION SPRING	BUTTON LEVER	1 1		
		MSW-1541T	LEAF SWITCH	MSW-1541T			1
		18210150T	PLAY BUTTON LEV	PLAY BUTTON	2		1
		192101501 19210311T	HEAD PANEL	FLAT BUITUN	2		1
		· ·	. ·		2		1
\vdash		19210304AT	HEAD BASE		2		
		19210309T	PANEL P SPRING		2		
1		19211418AT	SPRING		2		
		19211434T	P.ROLLER ARM	142 4 7	1		
		99992041T	SPECIAL SCREW	M2 X 3	1		1
\perp		19210305T	MAGNET HEAD ARM		1 1		
		18210307T	AZIMUTH SPRING	1	2		
		192104309T	P.ROLL. ARM ASY	PINCH ROLLER	2		
		640101161T	LEAF SWITCH	MSW-17820MVD0	2		
	3	19212604TT	SENSING LEVER		2		
		192107308T	RF CLUTCH ASS'Y		2		1
		18210711T	RF.BELT		2		
		19211433T	TORSION SPRING	BUTTON L.S.(C)	1		1
		192109304ZT	FLYWHEEL ASS'Y		1		
		192109303ZT	FLYWHEEL ASS'Y		1		
Ш		19212605T	TORSION SPRING	GEAR PLATE	2		
		192126502ZT	GEAR PLATE ASSY		2		
		19212602T	CAM GEAR		2		
	49	18211070T	F.FORWARD GEAR		2		
	50	18211099T	BACK TENSION SP	BACK TENSION	2		
	51	192105304T	S. REEL ASS'Y	SUPPLY	2		
	52	192105303T	T. REEL ASS'Y	TAKE UP	2		
	53	19210506T	SENSOR		2		1
	55	19211211T	MOTOR BRACKET		1		
	56	18211266T	MOTOR RUBBER		3		
	57	18511418T	COLLAR SCREW		3		
П	58	19211213T	MOTOR PULLEY		1		1
	59	19210924T	MAIN BELT		2		1
		19211212T	MAT		2		
		19211301T	EJ. SLIDE LEVER		2		
	}						

BLOCK NO. M3MM

_				BLOCK NO. M3	Janilani i		
Δ	REF.	PARTS NO.	PARTS NAME	REMARKS	QTY	SUFFIX	CLR
П	64	18291001T	PACK SPRING		2		
	65	MS18R-AKON1	PB HEAD	В МЕСНА	1		
		MS15R-AA2N1	REC/PB HEAD	A MECHA			İ
		PH-K380-MS1-6A	E HEAD	A MECHA	1 1		
		60020222T	MOTOR	F0 570VD 050	1 1		
H				EG-530YD-9BH	1		
		18211069T	REC.SAF.LEVER		1		
		91790000T	TAPPING SCREW	M2 X 3	2		
		91800000T	SCREW	M2 X 4	6		
		96790000T	TAPPING SCREW	M2 X 5	4		
Ц		99991809T	SPECIAL SCREW	M2 X 4.5	6		
	75	90040000T	SCREW(M2 X 6)	M2 X 6	2		
П	77	91150000T	SCREW(M2 X 3)	M2 X 3	2		
П	78	99220000T	SCREW(M2 X 7)	M2 X 7	2		
11	79	9P0420061T	SCREW	M2 X 6	1		
11		94800000T	LUG	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	1		
H		19211437T	P ARM COLLAR	-	1		
		94220000T	P.WASHER	1.2X3.8X0.3	5		
	87	99990313T	POLY.CUT WASHER		2		
		97860000T	POLY WASHER	1.45X3.8X0.5	2		
Ιİ		99990003T		2X3.5X0.3	2		
Н			POLYSLIDER WAS.	2.1X4X0.13	_ 2		
П		19211209T	P.KICK LEVER(B)		1		
П		18211268T	P.KICK LEVER	i	1		
$\ \cdot \ $		18211223T	COLLAR SCREW		1		
		18211265T	COLLAR (B)	P KICK LEVER	1		
Ш	95	18211225T	SPRING		1		
							

11. Illustration of Packing and Parts List



Packing parts list

BLOCK NO.	M4MM
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∇	RE	F.	PARTS NO.	PARTS NAME	REMARKS	QTY	SUFFIX	CLR
П	P	1	VPC5197-002	CARTON	50010-562-05-01	1		
11	₽	2	VPH1678-001	CUSHION (L)	50010-601-00-01	1		
	Р	3	VPH1678-002	CUSHION (R)	50010-602-00-01	1		l i
	P	4	VPE3020-028	POLY BAG	74038-643-03-01	1		
Ш	P	5	QPGA012-02505	POLY BAG	74009-233-04-00	1 1		-
П	Р	6	VPE3026-004	POLY BAG	74023-353-07-00	1		
	Р	7		CARTON LABEL	77200-257-01-01	1 1		
						1		
Ш								

Accessories

BLOCK NO.	M4MM
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					220011 110.			
Δ	RE	F.	PARTS NO.	PARTS NAME	REMARKS	QTY	SUFFIX	CLR
Δ	Α	1	QMP5520-183BS	POWER CORD	35041-183-21-14	1	В	
Δ		ŀ	QMP39F0-183	POWER CORD		1	E, EN, G	
	Α	2	VNN5197-251	INSTRUCTIONS		1	E	
			VNN5197-671	INSTRUCTIONS	77301-078-01-01	1 1	В	
Ш			VNN5197-271	INSTRUCTIONS		1	EN	
			VNN5197-261	INSTRUCTIONS		1	E,EN,G	
11	Α	3	E43486-340B	SAFETY INST SHE		1	В	
11	Α	4	BT-20135	WARRANTY CARD		1	G	
			BT-20066A	WARRANTY CARD		1	В	
Ш			BT-54003-1	WARRANTY CARD		1	В	
	Α	6	VGR0050-001	RMOCON	RM-RXQW35	1		
11	Α	7	UM-3(DJ)-2FSA	BATTERY	FOR REMOCON	1		
						1		
							 :	
Ш								



